

Systems of linear equations

Find both x- and y- coordinates of the solution to each system using substitution.

1) $2y + 4 = -3x$
 $0 = -x + y - 3$

2) $0 = -x - 2 + y$
 $-2y - 2 + \frac{1}{2}x = 0$

3) $-2x - 8y = 8$
 $0 = x - 2y - 8$

4) $-3y = -9 - x$
 $0 = -6y - 18 - 10x$

5) $6 = -x + 2y$
 $4x - y = 4$

6) $-12 = 6x + 3y$
 $1 = y + \frac{1}{3}x$

7) $-3 + 2x = -3y$
 $0 = 6 + 3y - x$

8) $-y = 4$
 $-3x - 1 = y$

9) $-y = -4 + 2x$
 $-2y = 8 - 12x$

10) $-\frac{1}{2} = x + \frac{1}{2}y$
 $-y - 4 + x = 0$

11) $-3x = -2y - 4$
 $-8 + 2y + 3x = 0$

12) $-2 = -x + y$
 $6x - y = -3$

13) $4y - 8 + x = 0$
 $7x + 16 = -4y$

14) $x - 4y = -12$
 $6x - 4y - 8 = 0$

15) $-2y + 2 = -3x$
 $4 = -x - y$

16) $-4 + y = -2x$
 $-3 - y + 5x = 0$

17) $-\frac{2}{3}x = -1 + \frac{1}{4}y$
 $-6 = 3y + 2x$

18) $-2y - 3x = 8$
 $3x = -4 + 2y$

19) $-3y - 12 - 9x = 0$
 $-x = -y + 4$

20) $24 = -21x + 6y$
 $4 + 2y - x = 0$

21) $0 = -y + 3 - 3x$
 $3x - 24 = 6y$

22) $-y - 4x = 1$
 $4 + x = y$

23) $2x - 1 = -y$
 $4 + 2y + x = 0$

24) $0 = 3 - 5x - y$
 $2x - 6 = 2y$

25) $0 = -3 - x - y$
 $8 = -x + 4y$

26) $7x = -3 - y$
 $-3 + y = -x$

$$\begin{aligned} 27) \quad & -9x = -12y - 48 \\ & 0 = -8 + 4y + 3x \end{aligned}$$

$$\begin{aligned} 28) \quad & 4y - 5x = -16 \\ & -\frac{1}{6}x = -1 + \frac{1}{3}y \end{aligned}$$

$$\begin{aligned} 29) \quad & 0 = -6 - 2y + x \\ & -9x + 6y = -6 \end{aligned}$$

$$\begin{aligned} 30) \quad & 0 = 6 + 3y - x \\ & 6 = 2y - 4x \end{aligned}$$

$$\begin{aligned} 31) \quad & 3x = -12y + 36 \\ & 4y - 3x = -4 \end{aligned}$$

$$\begin{aligned} 32) \quad & -y + \frac{1}{2}x = 3 \\ & y + x = 3 \end{aligned}$$

$$\begin{aligned} 33) \quad & -6 = -3y + x \\ & y = 2x - 3 \end{aligned}$$

$$\begin{aligned} 34) \quad & x = y - 3 \\ & -y + 7x - 3 = 0 \end{aligned}$$

$$\begin{aligned} 35) \quad & -x = -\frac{1}{2}y + \frac{3}{2} \\ & -9 = 12x + 3y \end{aligned}$$

$$\begin{aligned} 36) \quad & -3x = 9 - 3y \\ & -1 = -y \end{aligned}$$

$$\begin{aligned} 37) \quad & 36 + 12y = 3x \\ & 3x + 4y - 4 = 0 \end{aligned}$$

$$\begin{aligned} 38) \quad & 0 = 8 - x + 4y \\ & -1 = \frac{1}{2}x - \frac{1}{3}y \end{aligned}$$

$$\begin{aligned} 39) \quad & 3x = 12y + 24 \\ & 3x - 8 = -4y \end{aligned}$$

$$\begin{aligned} 40) \quad & y = -8x + 4 \\ & y + x = -3 \end{aligned}$$

$$\begin{aligned} 41) \quad & 6 + 3y = -4x \\ & 3y - 2x - 12 = 0 \end{aligned}$$

$$\begin{aligned} 42) \quad & y - 2 = x \\ & \frac{7}{4}x = 1 + \frac{1}{4}y \end{aligned}$$

$$\begin{aligned} 43) \quad & x = -2y + 2 \\ & 0 = -16 - x + 4y \end{aligned}$$

$$\begin{aligned} 44) \quad & -y + 5x + 2 = 0 \\ & -y = 2 - x \end{aligned}$$

$$\begin{aligned} 45) \quad & 2y - 4 = -x \\ & -3 + 2x = y \end{aligned}$$

$$\begin{aligned} 46) \quad & 3x - 4 = 2y \\ & 0 = -36 - 3x + 12y \end{aligned}$$

$$\begin{aligned} 47) \quad & 2 + 2y = x \\ & y = 4 + 3x \end{aligned}$$

$$\begin{aligned} 48) \quad & -2y - 6 = -8x \\ & -4 + 2x = -2y \end{aligned}$$

$$\begin{aligned} 49) \quad & -7x = 3 - y \\ & -2x + 2y + 6 = 0 \end{aligned}$$

$$\begin{aligned} 50) \quad & x + 4 = -y \\ & -2x - 3 = -3y \end{aligned}$$

$$\begin{aligned} 51) \quad & -1 - \frac{1}{12}x - \frac{1}{3}y = 0 \\ & x - 2 = -\frac{1}{2}y \end{aligned}$$

$$\begin{aligned} 52) \quad & -9 + 7x = -3y \\ & 9 + 3y = -x \end{aligned}$$

$$53) \begin{aligned} 2x + y &= -3 \\ -1 + \frac{1}{2}y &= -\frac{1}{6}x \end{aligned}$$

$$54) \begin{aligned} -5x &= -4 + 2y \\ -4 - 2y &= x \end{aligned}$$

$$55) \begin{aligned} 3y &= -24x - 12 \\ -9 &= -3y - 3x \end{aligned}$$

$$56) \begin{aligned} -4 + 2x - y &= 0 \\ -12x + 6 - 3y &= 0 \end{aligned}$$

$$57) \begin{aligned} 0 &= y - 2x - 4 \\ -x &= -4 - 2y \end{aligned}$$

$$58) \begin{aligned} x + 2y &= 6 \\ -y - 4x &= 4 \end{aligned}$$

$$59) \begin{aligned} 3x + y &= 2 \\ 0 &= 3x - 4 - y \end{aligned}$$

$$60) \begin{aligned} 1 - y &= 0 \\ 8 &= -4y + 3x \end{aligned}$$

$$61) \begin{aligned} 4x - y &= 4 \\ 0 &= 2 + x - y \end{aligned}$$

$$62) \begin{aligned} x - y &= 1 \\ 0 &= -2x - 3y + 12 \end{aligned}$$

$$63) \begin{aligned} 3y - 2x &= -6 \\ 0 &= -3y + 9 + 7x \end{aligned}$$

$$64) \begin{aligned} 4 + x &= 2y \\ -7x &= -8 - 2y \end{aligned}$$

$$65) \begin{aligned} y &= -1 \\ -3x + 2y &= -8 \end{aligned}$$

$$66) \begin{aligned} 36 + 21x - 9y &= 0 \\ -6 + x &= 3y \end{aligned}$$

$$67) \begin{aligned} -1 + 5x - y &= 0 \\ -x &= -y + 3 \end{aligned}$$

$$68) \begin{aligned} -9 - 3x + 3y &= 0 \\ 0 &= y + 1 + x \end{aligned}$$

$$69) \begin{aligned} -8y + 24 &= -10x \\ 0 &= -4 + x - 4y \end{aligned}$$

$$70) \begin{aligned} -1 &= -\frac{1}{2}y \\ y &= -1 - x \end{aligned}$$

$$71) \begin{aligned} -4y &= 5x - 16 \\ 0 &= -y - 1 \end{aligned}$$

$$72) \begin{aligned} 3y - 6 &= -3x \\ 9 + 3y &= 2x \end{aligned}$$

$$73) \begin{aligned} -x + 3 + y &= 0 \\ 5x - y + 1 &= 0 \end{aligned}$$

$$74) \begin{aligned} -3y &= -12 - x \\ -3 &= -2x - 3y \end{aligned}$$

$$75) \begin{aligned} 4x + 1 - y &= 0 \\ -4 - 2y &= -2x \end{aligned}$$

$$76) \begin{aligned} -4 &= y + 6x \\ -3 &= x - y \end{aligned}$$

$$77) \begin{aligned} -1 &= \frac{1}{2}y \\ -2y + 6 &= -5x \end{aligned}$$

$$78) \begin{aligned} 0 &= x - y - 1 \\ -2 &= -x \end{aligned}$$

$$79) \begin{aligned} -4y &= -12 + x \\ 2y &= -3x - 4 \end{aligned}$$

$$80) \begin{aligned} 0 &= x - y + 1 \\ -4 &= -y - 2x \end{aligned}$$

$$81) \begin{aligned} 0 &= 4 + x - 2y \\ 7x &= 4y + 12 \end{aligned}$$

$$82) \begin{aligned} 0 &= -x - 12 + 3y \\ -24 - 6y &= 14x \end{aligned}$$

$$83) \begin{aligned} 0 &= x + \frac{8}{3} + \frac{2}{3}y \\ -y &= -3 - 2x \end{aligned}$$

$$84) \begin{aligned} -9 + 7x &= -3y \\ 0 &= 3 + x + \frac{3}{2}y \end{aligned}$$

$$85) \begin{aligned} 5x &= 3y - 12 \\ 3y &= -2x - 9 \end{aligned}$$

$$86) \begin{aligned} 0 &= x - 3 \\ -x &= -12 - 3y \end{aligned}$$

$$87) \begin{aligned} y - \frac{1}{2}x &= -3 \\ 5x - 6 &= -2y \end{aligned}$$

$$88) \begin{aligned} 7x + 4 &= -y \\ -1 + \frac{1}{2}y + \frac{1}{2}x &= 0 \end{aligned}$$

$$89) \begin{aligned} -2y - 2 &= -x \\ x &= -4y + 8 \end{aligned}$$

$$90) \begin{aligned} -2x - y &= -1 \\ 2x &= 3 + y \end{aligned}$$

$$91) \begin{aligned} -4 - y &= 0 \\ 0 &= 3y - 6x - 12 \end{aligned}$$

$$92) \begin{aligned} -3 + y &= -x \\ y &= -3 - 7x \end{aligned}$$

$$93) \begin{aligned} x &= 9 - 3y \\ 0 &= -x + y + 1 \end{aligned}$$

$$94) \begin{aligned} -9y &= -15x - 9 \\ 3x - 9y &= 27 \end{aligned}$$

$$95) \begin{aligned} 0 &= 9 - 3y - 4x \\ 4 + y &= x \end{aligned}$$

$$96) \begin{aligned} 0 &= 18 + 9x - 6y \\ -2 - 2y &= -x \end{aligned}$$

$$97) \begin{aligned} 3y + 12 &= 7x \\ 3y - 12 + x &= 0 \end{aligned}$$

$$98) \begin{aligned} 2 &= y + x \\ -8y &= 8 + 2x \end{aligned}$$

$$99) \begin{aligned} 0 &= -5x + 2y + 4 \\ 0 &= x + 2y - 8 \end{aligned}$$

$$100) \begin{aligned} -1 - \frac{1}{4}y + \frac{3}{8}x &= 0 \\ -2y - 3x &= -4 \end{aligned}$$

$$101) \begin{aligned} 6 + y &= 2x \\ 0 &= -y - 2 \end{aligned}$$

$$102) \begin{aligned} -4y &= 12 + x \\ -4y + 20 &= 5x \end{aligned}$$

$$103) \begin{aligned} 5y - 14x &= 30 \\ 0 &= -35 + x - 5y \end{aligned}$$

$$104) \begin{aligned} y + 2x &= -6 \\ -84 &= -14y - 4x \end{aligned}$$

$$105) \begin{aligned} x - 12 + 4y &= 0 \\ 8y &= -72 + 22x \end{aligned}$$

$$106) \begin{aligned} 3y + 3 + 9x &= 0 \\ 8 &= x + 2y \end{aligned}$$

$$107) \begin{aligned} 48 + 22x &= 12y \\ 6y + x &= -48 \end{aligned}$$

$$108) \begin{aligned} 27 &= -3y + \frac{15}{7}x \\ 0 &= -84 + 24x + 21y \end{aligned}$$

$$109) \begin{aligned} -3y - 27 &= -11x \\ 0 &= -9 + 3y + x \end{aligned}$$

$$110) \begin{aligned} y - 8 &= x \\ -y &= 6x + 6 \end{aligned}$$

$$111) \begin{aligned} -6 + \frac{5}{2}x &= y \\ 3y - 18 + \frac{21}{2}x &= 0 \end{aligned}$$

$$112) \begin{aligned} 27 + 3y &= -x \\ -2x + 2 &= -2y \end{aligned}$$

$$113) \begin{aligned} 8y + 15x &= -48 \\ 8y - 48 + 3x &= 0 \end{aligned}$$

$$114) \begin{aligned} -21y - 42 - 6x &= 0 \\ -112 + 24x + 14y &= 0 \end{aligned}$$

$$115) \begin{aligned} -8x &= -18 - 2y \\ 0 &= 4x + 3y - 21 \end{aligned}$$

$$116) \begin{aligned} x + 6 + y &= 0 \\ 8x &= 14y - 70 \end{aligned}$$

$$117) \begin{aligned} x &= 3y - 21 \\ 0 &= 3 - 3y - 5x \end{aligned}$$

$$118) \begin{aligned} 0 &= -y + 9 \\ -4y + 12 - 3x &= 0 \end{aligned}$$

$$119) \begin{aligned} -20 &= 4y - 3x \\ 9 - x &= y \end{aligned}$$

$$120) \begin{aligned} -63 &= 7y + 3x \\ 13x &= 7y - 49 \end{aligned}$$

$$121) \begin{aligned} 3x - 9 + y &= 0 \\ -8 &= -7x + 2y \end{aligned}$$

$$122) \begin{aligned} -12 + 5x &= -6y \\ -x &= -6y - 24 \end{aligned}$$

$$123) \begin{aligned} -2x &= -9y - 63 \\ -9y + 11x &= -18 \end{aligned}$$

$$124) \begin{aligned} 0 &= -9 + y - \frac{2}{3}x \\ 6y + 4x &= 30 \end{aligned}$$

$$125) \begin{aligned} 0 &= -9 + y - \frac{15}{8}x \\ -32 + 2x - 8y &= 0 \end{aligned}$$

$$126) \begin{aligned} -5x - 2y &= -18 \\ -2y + 8x &= 8 \end{aligned}$$

$$127) \begin{aligned} x &= -6 + 3y \\ -\frac{1}{5}y &= 1 + \frac{2}{5}x \end{aligned}$$

$$128) \begin{aligned} -24 + x &= -4y \\ -2y + x &= -18 \end{aligned}$$

$$129) \begin{aligned} 3y + 4x &= 12 \\ 0 &= x - 9 \end{aligned}$$

$$130) \begin{aligned} 0 &= -2x - 3y + 6 \\ \frac{1}{8}x &= 1 + \frac{1}{8}y \end{aligned}$$

$$131) \begin{aligned} 8y - 3x &= -16 \\ \frac{1}{7}y - \frac{3}{14}x &= 1 \end{aligned}$$

$$132) \begin{aligned} y - 2x &= -9 \\ 0 &= 5 + 5y - 2x \end{aligned}$$

$$133) \begin{aligned} 0 &= -10y - 16x + 60 \\ -1 - \frac{1}{3}y &= -\frac{1}{15}x \end{aligned}$$

$$134) \begin{aligned} 30 - 5y &= 2x \\ 5y + 15 + 11x &= 0 \end{aligned}$$

$$135) \begin{aligned} -3x &= -8 + y \\ 0 &= x - \frac{1}{2}y + \frac{3}{2} \end{aligned}$$

$$136) \begin{aligned} -5y &= -30 + 7x \\ 2x - 15 - 5y &= 0 \end{aligned}$$

$$137) \begin{aligned} 2x &= \frac{54}{11} - \frac{18}{11}y \\ 243 &= -27y + 3x \end{aligned}$$

$$138) \begin{aligned} 9 &= 3y - 3x \\ 4x &= -2 - y \end{aligned}$$

$$139) \begin{aligned} 14x &= -81 + 9y \\ 6x - 27y - 81 &= 0 \end{aligned}$$

$$140) \begin{aligned} -10 &= -7x + 5y \\ 10y &= 60 - 2x \end{aligned}$$

$$141) \begin{aligned} 96 + 24y &= -9x \\ -36 - 4y + x &= 0 \end{aligned}$$

$$142) \begin{aligned} 2x &= 1 - y \\ 0 &= y - 4 - x \end{aligned}$$

$$143) \begin{aligned} 10 &= 7x + 5y \\ 5y &= -x + 40 \end{aligned}$$

$$144) \begin{aligned} 2y &= -x + 2 \\ 2y + 6 &= x \end{aligned}$$

$$145) \begin{aligned} -\frac{11}{63}x &= 1 - \frac{1}{7}y \\ -1 - \frac{1}{8}y &= \frac{1}{18}x \end{aligned}$$

$$146) \begin{aligned} -15 &= -3y - 2x \\ 21 &= -3y - 8x \end{aligned}$$

$$147) \begin{aligned} -x &= -12 + 3y \\ -54 &= 3x - 6y \end{aligned}$$

$$148) \begin{aligned} 0 &= -4y - 3x - 4 \\ 0 &= -7 - y \end{aligned}$$

$$149) \begin{aligned} 9y + 2x + 9 &= 0 \\ 9y &= -10x + 63 \end{aligned}$$

$$150) \begin{aligned} -12y &= 84 - 22x \\ 18 + x &= 6y \end{aligned}$$

$$151) \begin{aligned} 4 &= x + 2y \\ 12 &= 2y - 3x \end{aligned}$$

$$152) \begin{aligned} 24 + 13x &= 6y \\ -x &= -3y - 21 \end{aligned}$$

$$153) \begin{aligned} -y &= -9 - 3x \\ 5 &= x + y \end{aligned}$$

$$154) \begin{aligned} 0 &= 7 - y - 2x \\ -y + x &= 2 \end{aligned}$$

$$155) \begin{aligned} 7y - 3x + 63 &= 0 \\ -7y - 5x &= 7 \end{aligned}$$

$$156) \begin{aligned} -2x - y &= 2 \\ 7 &= -x + y \end{aligned}$$

$$157) \begin{aligned} -7 + 7y &= -6x \\ x - 42 &= 7y \end{aligned}$$

$$158) \begin{aligned} 0 &= x + 1 + y \\ 9x - 7 &= -y \end{aligned}$$

$$159) \begin{aligned} y - 7 &= 0 \\ 3x - 4 &= -4y \end{aligned}$$

$$160) \begin{aligned} 5 &= 2x + y \\ -5x + y + 9 &= 0 \end{aligned}$$

$$161) \begin{aligned} 5x + 27 &= 3y \\ 3y + 18 &= -10x \end{aligned}$$

$$162) \begin{aligned} 7y + 28 - 4x &= 0 \\ -7y + 56 + 16x &= 0 \end{aligned}$$

$$163) 112 + 14y = 2x$$

$$0 = y - 2 - \frac{11}{7}x$$

$$164) \frac{17}{81}x + \frac{1}{9}y = -1$$

$$15 = 3y + x$$

$$165) 0 = -y + 2$$

$$-y = -8 + 3x$$

$$166) -4y - 2x = 8$$

$$-54 = 6y - 4x$$

$$167) 5y = -15 - x$$

$$-y = 9 + \frac{7}{5}x$$

$$168) -8 + 4y = -3x$$

$$14 = 2y - x$$

$$169) -3x + 6y = -24$$

$$y = 8 + 2x$$

$$170) -5y = -45 + 13x$$

$$-4 = y$$

$$171) -5x - 3y - 21 = 0$$

$$63 = x + 9y$$

$$172) 1 - \frac{1}{3}y = \frac{4}{9}x$$

$$-24 + 7x = 3y$$

$$173) 6x + 72 - 8y = 0$$

$$-7x = 2y + 16$$

$$174) -5x - 36 = -9y$$

$$5x = 3y + 18$$

$$175) 0 = -1 + y - x$$

$$-6 = -10x + 2y$$

$$176) -15 + 24x - 3y = 0$$

$$-y = -4 + x$$

$$177) 0 = -6 - x + 2y$$

$$12 + 4y = -x$$

$$178) 16 + 9x = 8y$$

$$64 + 8y = -x$$

$$179) -x = -9$$

$$-3y + 9 = -2x$$

$$180) 0 = -32 + 5x - 4y$$

$$x = -4y - 8$$

$$181) -9x = 7y - 56$$

$$3x = 7y + 28$$

$$182) 0 = -x + 8y - 32$$

$$5x + 16 = -8y$$

$$183) -1 - \frac{13}{63}x + \frac{1}{7}y = 0$$

$$-63 - x = 9y$$

$$184) 0 = 3y - 21 - \frac{3}{5}x$$

$$-x - y + 1 = 0$$

$$185) -5y - 35 = 14x$$

$$-40 + 10y = -6x$$

$$186) 96 + 16y = -6x$$

$$-20 = -7x - 4y$$

$$187) 0 = 36 - 7x + 4y$$

$$-20 + 4y + 7x = 0$$

$$188) 1 + y + x = 0$$

$$-3x + 6y - 12 = 0$$

$$189) 7y = 8x - 28$$

$$56 = 4x + 7y$$

$$190) 3y + 8x = -27$$

$$x + 3y - 15 = 0$$

$$191) 2x - \frac{126}{13} + \frac{18}{13}y = 0$$

$$-x + 63 = -9y$$

$$193) x - 7y - 63 = 0$$

$$3y + 6x = 18$$

$$195) -9y + 21x - 81 = 0$$

$$6 = y + \frac{8}{3}x$$

$$197) -y - 3 = 8x$$

$$x = y - 6$$

$$199) 0 = 6 + 2x + y$$

$$-147 = -21y - 3x$$

$$201) 204 + 12y - 45x = 0$$

$$-12y = -60 + 21x$$

$$203) 0 = y - 5$$

$$0 = -7 - y + 3x$$

$$205) x + 2y - 26 = 0$$

$$8 - y + \frac{3}{4}x = 0$$

$$207) 0 = 11 - y - \frac{1}{4}x$$

$$-\frac{31}{4}x = 51 + 3y$$

$$209) -48 = 6y - 5x$$

$$12y = -228 - x$$

$$211) -15 = 3y$$

$$-12y + 144 = -51x$$

$$213) -2y + 32 = -6x$$

$$65 = -5y - 14x$$

$$215) -3y - 7x = -45$$

$$1 - \frac{1}{2}y = -x$$

$$192) 90 = 20x + 18y$$

$$9y = -x - 36$$

$$194) \frac{1}{3}y = -x - \frac{5}{3}$$

$$2y - 5x = 12$$

$$196) 28 + 4y = x$$

$$-4y + 36 - 7x = 0$$

$$198) 7y + 6x = -14$$

$$7y + 63 = x$$

$$200) -27 + 3y = -10x$$

$$3y = 5x - 18$$

$$202) 20x = 19y + 361$$

$$-18x = -361 + 19y$$

$$204) 11x = 12y - 228$$

$$1 - \frac{7}{12}x = y$$

$$206) -5x - 156 = -12y$$

$$2y = -12 + 4x$$

$$208) 110 + 5x + 11y = 0$$

$$-44 + 11y = -19x$$

$$210) 16x = -11y + 88$$

$$-11y - 77 = x$$

$$212) -20 + 2y - 11x = 0$$

$$52 + x = -4y$$

$$214) 0 = 76 + 19y - 9x$$

$$-19y - 9x + 266 = 0$$

$$216) -13x = 19y - 209$$

$$-16x = -342 - 19y$$

$$\begin{aligned} 217) \quad & 72 + 12y = -17x \\ & -7x = -12y + 216 \end{aligned}$$

$$\begin{aligned} 218) \quad & -3y + 15 = -10x \\ & -x - 3y = -48 \end{aligned}$$

$$\begin{aligned} 219) \quad & -33 = -21x - 11y \\ & -176 = 2x + 11y \end{aligned}$$

$$\begin{aligned} 220) \quad & 13y + 22x = -52 \\ & -15x - 39y = -507 \end{aligned}$$

$$\begin{aligned} 221) \quad & 6x = 5y + 85 \\ & -195 + 15y = -27x \end{aligned}$$

$$\begin{aligned} 222) \quad & 0 = y - 4x - 12 \\ & 0 = 6x + 70 + 5y \end{aligned}$$

$$\begin{aligned} 223) \quad & -110 = 11y + x \\ & 33y = -99 - 24x \end{aligned}$$

$$\begin{aligned} 224) \quad & y + 8 - \frac{7}{13}x = 0 \\ & -13y - 234 = 3x \end{aligned}$$

$$\begin{aligned} 225) \quad & 40 + 5y = -13x \\ & y - 15 = 2x \end{aligned}$$

$$\begin{aligned} 226) \quad & 5y = -70 - 12x \\ & -18x = -5y + 80 \end{aligned}$$

$$\begin{aligned} 227) \quad & 0 = -17x + 342 - 18y \\ & -2x - 36y + 108 = 0 \end{aligned}$$

$$\begin{aligned} 228) \quad & 18y - 180 = -2x \\ & 7x - 54 = 9y \end{aligned}$$

$$\begin{aligned} 229) \quad & -13 + y = -x \\ & -y = -11 \end{aligned}$$

$$\begin{aligned} 230) \quad & 2y = 36 \\ & 21x - 2y = 6 \end{aligned}$$

$$\begin{aligned} 231) \quad & 13 + 13y = 17x \\ & -2x + 13y + 208 = 0 \end{aligned}$$

$$\begin{aligned} 232) \quad & 19 - 2x = -y \\ & 20 - 2y = 25x \end{aligned}$$

$$\begin{aligned} 233) \quad & 1 - \frac{1}{7}y = \frac{3}{14}x \\ & x - 26 = 2y \end{aligned}$$

$$\begin{aligned} 234) \quad & y = 5 + \frac{8}{7}x \\ & x - \frac{112}{3} = \frac{14}{3}y \end{aligned}$$

$$\begin{aligned} 235) \quad & -y = 13 + \frac{4}{7}x \\ & -91 = 9x - 7y \end{aligned}$$

$$\begin{aligned} 236) \quad & 0 = -y + 5 + \frac{5}{9}x \\ & 0 = 16 + y - \frac{31}{18}x \end{aligned}$$

$$\begin{aligned} 237) \quad & 15 = 5y + 2x \\ & -40 - 10y = -3x \end{aligned}$$

$$\begin{aligned} 238) \quad & -18x = -80 - 20y \\ & 5y = -x + 35 \end{aligned}$$

$$\begin{aligned} 239) \quad & x + 3y - 18 = 0 \\ & 0 = -30 - 13x - 6y \end{aligned}$$

$$\begin{aligned} 240) \quad & y = 16 + \frac{7}{3}x \\ & -38 - 7x - 2y = 0 \end{aligned}$$

$$\begin{aligned} 241) \quad & 255 = 17y - 3x \\ & -21x = -51 - 17y \end{aligned}$$

$$\begin{aligned} 242) \quad & -x = -84 + 6y \\ & 11x - 24 = -6y \end{aligned}$$

$$243) \begin{aligned} x &= 2 \\ 2y &= -38 + x \end{aligned}$$

$$244) \begin{aligned} 2y &= 8x - 30 \\ -8 &= 3x + y \end{aligned}$$

$$245) \begin{aligned} 714 &= 6x + 51y \\ 0 &= -17y - 17 + 13x \end{aligned}$$

$$246) \begin{aligned} -408 &= -51y - 66x \\ 51y + 15x &= -459 \end{aligned}$$

$$247) \begin{aligned} -3y &= 21 - 6x \\ -33x &= -18 + 3y \end{aligned}$$

$$248) \begin{aligned} 0 &= 2y + x + 30 \\ -14y + 14 &= -9x \end{aligned}$$

$$249) \begin{aligned} 10x + 9y - 108 &= 0 \\ 0 &= 9 - x \end{aligned}$$

$$250) \begin{aligned} -y &= 16 + \frac{15}{14}x \\ -12 + 2y &= x \end{aligned}$$

$$251) \begin{aligned} 120 + 15y &= -13x \\ 40 - 5y &= -x \end{aligned}$$

$$252) \begin{aligned} -9y &= x - 90 \\ 27y - 39x &= -108 \end{aligned}$$

$$253) \begin{aligned} -x - \frac{7}{30}y &= \frac{21}{5} \\ 7y &= 3x + 105 \end{aligned}$$

$$254) \begin{aligned} 14y &= 266 + 2x \\ -y &= 10 + 4x \end{aligned}$$

$$255) \begin{aligned} 160 + 7x + 16y &= 0 \\ y + \frac{17}{8}x &= 17 \end{aligned}$$

$$256) \begin{aligned} -9 &= 4x - 3y \\ -4x + 9y &= 99 \end{aligned}$$

$$257) \begin{aligned} -3 - \frac{3}{10}y &= -\frac{6}{35}x \\ -7y + 7 &= -15x \end{aligned}$$

$$258) \begin{aligned} -96 - 16y &= 5x \\ -16 &= -x \end{aligned}$$

$$259) \begin{aligned} y &= -19x + 11 \\ -y &= 10 - 2x \end{aligned}$$

$$260) \begin{aligned} -4x &= 15y + 75 \\ -x + y &= 14 \end{aligned}$$

$$261) \begin{aligned} 2y - 8 &= -x \\ -528 &= -21x + 48y \end{aligned}$$

$$262) \begin{aligned} 15y - 15 &= -x \\ -3y &= 2x + 24 \end{aligned}$$

$$263) \begin{aligned} -60 &= -2x - 10y \\ -9y &= 99 + 12x \end{aligned}$$

$$264) \begin{aligned} -8 &= -4y + 5x \\ -8y &= 7x - 152 \end{aligned}$$

$$265) \begin{aligned} y + \frac{7}{19}x &= -2 \\ 12x &= -323 + 19y \end{aligned}$$

$$266) \begin{aligned} x - 2y &= -30 \\ -\frac{18}{7} &= -x + \frac{2}{7}y \end{aligned}$$

$$267) \begin{aligned} 120 + 8y &= x \\ -56 - 8y &= 7x \end{aligned}$$

$$268) \begin{aligned} -x + 4y - 76 &= 0 \\ -1 &= -\frac{1}{2}y - \frac{13}{32}x \end{aligned}$$

$$269) \begin{aligned} 128 + 27x &= 8y \\ -36 - 4y + x &= 0 \end{aligned}$$

$$270) \begin{aligned} \frac{112}{3} + \frac{8}{3}y &= x \\ -y &= -18 - \frac{35}{8}x \end{aligned}$$

$$271) \begin{aligned} 4y &= 56 + 9x \\ 5x + 8 &= 8y \end{aligned}$$

$$272) \begin{aligned} -14 &= 3x - y \\ 4x + 14 &= -y \end{aligned}$$

$$273) \begin{aligned} -2 + \frac{1}{22}x &= \frac{2}{11}y \\ -3x + 20 &= 4y \end{aligned}$$

$$274) \begin{aligned} -144 - 8y &= 15x \\ 0 &= y - 12 \end{aligned}$$

$$275) \begin{aligned} -14x + 225 + 15y &= 0 \\ -240 &= -17x - 15y \end{aligned}$$

$$276) \begin{aligned} -20x &= 77 + 7y \\ -y &= -10 - \frac{1}{7}x \end{aligned}$$

$$277) \begin{aligned} 17 &= -y + \frac{23}{15}x \\ \frac{15}{2} &= -x + \frac{15}{4}y \end{aligned}$$

$$278) \begin{aligned} 20 + 2y + 2x &= 0 \\ 210 - 21y &= 81x \end{aligned}$$

$$279) \begin{aligned} 0 &= x + 2y - 22 \\ 105x &= -768 - 48y \end{aligned}$$

$$280) \begin{aligned} -7y &= -133 + 29x \\ -21y &= 294 - 12x \end{aligned}$$

$$281) \begin{aligned} -3y + 2x &= 3 \\ -20x + 9y &= 117 \end{aligned}$$

$$282) \begin{aligned} -x &= \frac{1}{12}y - \frac{1}{4} \\ 0 &= 2x + 17 - y \end{aligned}$$

$$283) \begin{aligned} -6x + 8 &= -4y \\ -8y + x &= 104 \end{aligned}$$

$$284) \begin{aligned} 5x + 36 &= 9y \\ -27 - 9y &= 2x \end{aligned}$$

$$285) \begin{aligned} -35 + x &= 5y \\ 45y &= -48x + 540 \end{aligned}$$

$$286) \begin{aligned} 2y - 32 - 8x &= 0 \\ 0 &= y + 3x - 9 \end{aligned}$$

$$287) \begin{aligned} -90 &= -45y + 3x \\ 15y + 9x &= 180 \end{aligned}$$

$$288) \begin{aligned} -2x + 7y - 35 &= 0 \\ 0 &= -84 - 14y + 15x \end{aligned}$$

$$289) \begin{aligned} -1 + \frac{1}{7}y - \frac{1}{7}x &= 0 \\ y &= 18 + 12x \end{aligned}$$

$$290) \begin{aligned} 0 &= 15x + 17y - 17 \\ 17y &= 255 - x \end{aligned}$$

$$291) \begin{aligned} -3x + 238 &= -17y \\ -\frac{187}{28} &= x - \frac{17}{28}y \end{aligned}$$

$$292) \begin{aligned} -y - 4x &= -10 \\ 2y &= -28 \end{aligned}$$

$$293) \begin{aligned} 0 &= 15 + 3y + x \\ 0 &= 5 - y - 2x \end{aligned}$$

$$294) \begin{aligned} 25x &= -255 + 17y \\ -2x - \frac{34}{3}y &= \frac{442}{3} \end{aligned}$$

$$295) \begin{aligned} 18 - y - x &= 0 \\ -51x + 6 &= 3y \end{aligned}$$

$$296) \begin{aligned} 3y &= -45 + 7x \\ 4x - 21 + 3y &= 0 \end{aligned}$$

$$297) \begin{aligned} 126 &= -10x - 9y \\ 117 - 9y + 17x &= 0 \end{aligned}$$

$$298) \begin{aligned} 10y + 23x + 140 &= 0 \\ 8 &= 2y + x \end{aligned}$$

$$299) \begin{aligned} -144 &= -9y + 13x \\ -1 - \frac{2}{15}x &= \frac{1}{15}y \end{aligned}$$

$$300) \begin{aligned} 0 &= 14y + 3x - 126 \\ -1 &= -y + \frac{5}{14}x \end{aligned}$$

$$301) \begin{aligned} 2y - x &= 6 \\ 0 &= -4 + 4x - y \end{aligned}$$

$$302) \begin{aligned} 0 &= -4 + 4y + 3x \\ 0 &= -2x + 24 + 8y \end{aligned}$$

$$303) \begin{aligned} -10x - 6y + 24 &= 0 \\ 6 &= x - 3y \end{aligned}$$

$$304) \begin{aligned} -x &= 3 - y \\ -y + 8x &= 4 \end{aligned}$$

$$305) \begin{aligned} 2x &= -3 + y \\ 6x + 3y &= -3 \end{aligned}$$

$$306) \begin{aligned} \frac{4}{3} + \frac{1}{3}y &= -x \\ -6 + 6y + 3x &= 0 \end{aligned}$$

$$307) \begin{aligned} 6y - 2x &= -12 \\ -27 &= -9y - 12x \end{aligned}$$

$$308) \begin{aligned} -6x + 9 &= 9y \\ 6y + 14x &= -24 \end{aligned}$$

$$309) \begin{aligned} -2 + x - y &= 0 \\ -3y + 6 &= -15x \end{aligned}$$

$$310) \begin{aligned} x + \frac{4}{3} - \frac{2}{3}y &= 0 \\ 4 + 2y &= x \end{aligned}$$

$$311) \begin{aligned} x + 4y &= 8 \\ 0 &= 2x + 8 \end{aligned}$$

$$312) \begin{aligned} y &= -x - 3 \\ -y &= -2 - 4x \end{aligned}$$

$$313) \begin{aligned} 4 &= x \\ 0 &= 5x - 4 - 4y \end{aligned}$$

$$314) \begin{aligned} -8 - 3x &= 2y \\ 3x - 2y &= -4 \end{aligned}$$

$$315) \begin{aligned} -8 &= -x - 2y \\ 12y &= -36 + 15x \end{aligned}$$

$$316) \begin{aligned} 3x - \frac{9}{2} &= -\frac{3}{2}y \\ -8 + 10x - 2y &= 0 \end{aligned}$$

$$317) \begin{aligned} 3y - 2x &= 3 \\ y &= -x - 4 \end{aligned}$$

$$318) \begin{aligned} 9 - 3y - x &= 0 \\ -y &= -x + 1 \end{aligned}$$

$$319) \begin{aligned} 4 + 7x + y &= 0 \\ 0 &= -3y - 3x + 6 \end{aligned}$$

$$320) \begin{aligned} -4 &= y \\ -6x &= 3y + 6 \end{aligned}$$

$$321) \frac{1}{12}x = -1 - \frac{1}{3}y$$

$$2y - 4 = -3x$$

$$322) 3y + 2x = -3$$

$$7x + 3y = 12$$

$$323) 3x - 6 + 3y = 0$$

$$-x - 4 = -y$$

$$324) 0 = -2y + 6 - 5x$$

$$-x + 2y = -6$$

$$325) 4x = -y - 4$$

$$2x = -4y + 12$$

$$326) -4 = -2x + y$$

$$2y + 10x - 6 = 0$$

$$327) 0 = 8 - 4y - x$$

$$-3x + 8 = -4y$$

$$328) -4 - x = -4y$$

$$2x = \frac{4}{3}y + \frac{16}{3}$$

$$329) 3 = x - \frac{3}{2}y$$

$$-3y = -9 - 7x$$

$$330) -y + 3 - 4x = 0$$

$$0 = 2x - 3 - y$$

$$331) 4 + y = -x$$

$$0 = -2 + y - 5x$$

$$332) 2y - 6 = 3x$$

$$-4y - 8 = -x$$

$$333) 1 - y + \frac{2}{3}x = 0$$

$$-3y = x - 12$$

$$334) -y = -3$$

$$-2x + y + 1 = 0$$

$$335) 3y = 12 + 9x$$

$$y + 1 + 2x = 0$$

$$336) 4 + 3x = 4y$$

$$-36 - 3x = 12y$$

$$337) -4 - 2y = 4x$$

$$x = -4 + y$$

$$338) 2y + 3x = 8$$

$$-4 = x + 4y$$

$$339) 3 + y = -x$$

$$-2 + y = -6x$$

$$340) 4 - x = 4y$$

$$-2y = -x - 8$$

$$341) x = 1 - y$$

$$-4y + x = 16$$

$$342) -3 + 3y = -2x$$

$$-3y = 12 - 3x$$

$$343) -21x - 12y = 48$$

$$4 + x = 0$$

$$344) 4x = 2y + 2$$

$$0 = -2 + x + y$$

$$345) -1 - \frac{1}{4}y + \frac{1}{2}x = 0$$

$$-3y + x = -3$$

$$346) -3y - 9 - 3x = 0$$

$$-1 + \frac{1}{3}y - \frac{5}{3}x = 0$$

$$347) 36 - 21x = -12y$$

$$24 + 2x = 8y$$

$$348) -y - 2 = -4x$$

$$-1 = y - 4x$$

$$349) \begin{aligned} 5x - 2y &= -6 \\ -y - 4 &= x \end{aligned}$$

$$350) \begin{aligned} 9 &= -x - 3y \\ 5x + 3y &= 3 \end{aligned}$$

$$351) \begin{aligned} -x + 4 &= -y \\ 3 + y &= 0 \end{aligned}$$

$$352) \begin{aligned} -y + x &= -4 \\ x &= -\frac{1}{4}y - \frac{1}{4} \end{aligned}$$

$$353) \begin{aligned} -2x &= -4 + y \\ 0 &= -x + \frac{2}{3} + \frac{1}{6}y \end{aligned}$$

$$354) \begin{aligned} -y - 4 &= -x \\ -6 + 3y &= -15x \end{aligned}$$

$$355) \begin{aligned} 12 + 6y &= -3x \\ -1 &= -\frac{7}{8}x - \frac{1}{4}y \end{aligned}$$

$$356) \begin{aligned} -3 &= y + x \\ 4y &= 3x + 16 \end{aligned}$$

$$357) \begin{aligned} -5x - 2y &= 2 \\ 2y - 6 + x &= 0 \end{aligned}$$

$$358) \begin{aligned} 16 - 3x &= 4y \\ 0 &= -3x - 4y - 8 \end{aligned}$$

$$359) \begin{aligned} y &= -1 - x \\ -15x + 9 &= 3y \end{aligned}$$

$$360) \begin{aligned} 0 &= y - 1 - 2x \\ -2x - y &= 3 \end{aligned}$$

$$361) \begin{aligned} 3y - x &= -6 \\ 2x - y &= -3 \end{aligned}$$

$$362) \begin{aligned} 2y &= x - 6 \\ 0 &= -2 - x \end{aligned}$$

$$363) \begin{aligned} y &= -x - 4 \\ 0 &= 2x + 3 - 3y \end{aligned}$$

$$364) \begin{aligned} x - y &= 1 \\ -9 &= -x - 3y \end{aligned}$$

$$365) \begin{aligned} -3y + 12 &= x \\ x - \frac{6}{5} &= \frac{3}{5}y \end{aligned}$$

$$366) \begin{aligned} -\frac{4}{5}y &= -x - \frac{8}{5} \\ -x - 4y &= 16 \end{aligned}$$

$$367) \begin{aligned} 3x - 3y &= -9 \\ x &= -y - 1 \end{aligned}$$

$$368) \begin{aligned} 8 + 2x &= -8y \\ 4y &= -x + 16 \end{aligned}$$

$$369) \begin{aligned} -1 + \frac{5}{2}x &= y \\ x + 6 &= 2y \end{aligned}$$

$$370) \begin{aligned} 0 &= -x - 4 + 2y \\ 2y + 6 - x &= 0 \end{aligned}$$

$$371) \begin{aligned} x &= 2 - y \\ 8 + 2y &= 2x \end{aligned}$$

$$372) \begin{aligned} y + 3 + x &= 0 \\ -5x - y + 1 &= 0 \end{aligned}$$

$$373) \begin{aligned} -x &= 9 - 3y \\ -x - 1 &= y \end{aligned}$$

$$374) \begin{aligned} -y &= 2x - 4 \\ 2x + 8y &= -24 \end{aligned}$$

$$375) \begin{aligned} y + 2 &= x \\ -y &= x + 4 \end{aligned}$$

$$376) \begin{aligned} -3 - 3y &= -3x \\ 2y + 3x &= 8 \end{aligned}$$

$$377) \begin{aligned} -x &= y + 1 \\ -1 - \frac{1}{16}x &= -\frac{1}{4}y \end{aligned}$$

$$378) \begin{aligned} 3x + 1 &= y \\ -3x + y &= -1 \end{aligned}$$

$$379) \begin{aligned} 2x &= -y + 2 \\ -2x &= 6y + 18 \end{aligned}$$

$$380) \begin{aligned} 3 - 2x - y &= 0 \\ 0 &= -2 - y + 3x \end{aligned}$$

$$381) \begin{aligned} 3 &= -2x + y \\ 2y &= -8 - 3x \end{aligned}$$

$$382) \begin{aligned} 12x - 2y &= -6 \\ -3y &= -9 - 18x \end{aligned}$$

$$383) \begin{aligned} -y + 5x &= 3 \\ -y + 3 - x &= 0 \end{aligned}$$

$$384) \begin{aligned} 4 &= -2y + 3x \\ -x &= -2y + 4 \end{aligned}$$

$$385) \begin{aligned} -6 &= 2y - 2x \\ 7x &= -3 + y \end{aligned}$$

$$386) \begin{aligned} 0 &= 5x - 4 + 2y \\ 2y &= -8 + x \end{aligned}$$

$$387) \begin{aligned} -8 &= 2x - 2y \\ 4x - 2 &= -2y \end{aligned}$$

$$388) \begin{aligned} 3x - 1 &= -y \\ 0 &= -4 - 3x - y \end{aligned}$$

$$389) \begin{aligned} 3x - 6 - 3y &= 0 \\ 4 + 4x &= y \end{aligned}$$

$$390) \begin{aligned} 9 - 3y &= 3x \\ -y - 8x &= 4 \end{aligned}$$

$$391) \begin{aligned} x - 4y + 8 &= 0 \\ 0 &= 2y + 2 + x \end{aligned}$$

$$392) \begin{aligned} 8 + 3x &= -2y \\ 2x + 8 &= -4y \end{aligned}$$

$$393) \begin{aligned} -15x + 12y &= 24 \\ 0 &= -5x - 16 + 4y \end{aligned}$$

$$394) \begin{aligned} -4 - \frac{8}{3}x &= -y \\ 0 &= -2x + 3y + 6 \end{aligned}$$

$$395) \begin{aligned} 6 &= -x + 3y \\ 3 - 4x &= -3y \end{aligned}$$

$$396) \begin{aligned} 0 &= -3y + 12 - \frac{3}{2}x \\ 0 &= 4 - 3x + 4y \end{aligned}$$

$$397) \begin{aligned} -x - 3 &= -y \\ -x - 4y &= 8 \end{aligned}$$

$$398) \begin{aligned} 0 &= -8x + 2y + 8 \\ 2 &= -x + y \end{aligned}$$

$$399) \begin{aligned} -16 &= -4y + 7x \\ 0 &= x - 2y - 2 \end{aligned}$$

$$400) \begin{aligned} -8 &= 3x - 2y \\ -8 &= 2y + x \end{aligned}$$

$$401) \begin{aligned} -4x &= 9y - 63 \\ -9y &= -11x + 72 \end{aligned}$$

$$402) \begin{aligned} -3y &= 3 - 7x \\ 0 &= 2x - 24 + 3y \end{aligned}$$

$$403) \begin{aligned} -y + 7x &= -1 \\ x &= -7 - y \end{aligned}$$

$$404) \begin{aligned} y + 8 &= -\frac{1}{5}x \\ 0 &= -15 - 6x - 5y \end{aligned}$$

$$405) \begin{aligned} -3y - x &= 15 \\ 8 - y &= -\frac{11}{6}x \end{aligned}$$

$$406) \begin{aligned} 0 &= -18 - 15x + 9y \\ 3 &= x \end{aligned}$$

$$407) \begin{aligned} 0 &= -9x - 40 - 5y \\ -15y + 21x &= -120 \end{aligned}$$

$$408) \begin{aligned} -5x + 24 &= -4y \\ 0 &= -2y + 16 - x \end{aligned}$$

$$409) \begin{aligned} 4y - 32 &= -17x \\ 32 + 4y &= -x \end{aligned}$$

$$410) \begin{aligned} 3y &= 6x - 9 \\ 0 &= -y - 2x - 7 \end{aligned}$$

$$411) \begin{aligned} -y - \frac{1}{3}x &= 1 \\ 7x + 36 &= -6y \end{aligned}$$

$$412) \begin{aligned} -7y &= 7 - x \\ 3x + 7y &= -35 \end{aligned}$$

$$413) \begin{aligned} 7x - 8y &= 24 \\ 24 + x &= 8y \end{aligned}$$

$$414) \begin{aligned} 4 + 4y &= -7x \\ 0 &= 4 - x \end{aligned}$$

$$415) \begin{aligned} y + 9 &= -2x \\ -26x - 32 + 4y &= 0 \end{aligned}$$

$$416) \begin{aligned} -9x - 24 &= -24y \\ 0 &= 2y + 12 + x \end{aligned}$$

$$417) \begin{aligned} 3y + \frac{3}{2}x &= 27 \\ 18 + 2y - 17x &= 0 \end{aligned}$$

$$418) \begin{aligned} 2 &= -x - 2y \\ \frac{5}{6}x &= y - 7 \end{aligned}$$

$$419) \begin{aligned} 3x &= -42 + 6y \\ 3y + 12 &= 18x \end{aligned}$$

$$420) \begin{aligned} x &= -21 - 3y \\ 9y + 27 &= -15x \end{aligned}$$

$$421) \begin{aligned} 6 &= 2y - 7x \\ 2y &= x - 6 \end{aligned}$$

$$422) \begin{aligned} 3x - \frac{21}{4}y + \frac{21}{4} &= 0 \\ -\frac{4}{63}x &= -1 + \frac{1}{9}y \end{aligned}$$

$$423) \begin{aligned} 4 - 4y &= -x \\ x &= -2y - 10 \end{aligned}$$

$$424) \begin{aligned} -14 &= 4x + 7y \\ -49 &= -7y + 5x \end{aligned}$$

$$425) \begin{aligned} -7y - 28 + 10x &= 0 \\ 21y - 168 + 6x &= 0 \end{aligned}$$

$$426) \begin{aligned} 0 &= -2x + 6 \\ -y &= x + 4 \end{aligned}$$

$$427) \begin{aligned} 7 + \frac{11}{3}x &= y \\ x &= 3y + 9 \end{aligned}$$

$$428) \begin{aligned} 3x &= -21y - 168 \\ -6x - 21 &= 7y \end{aligned}$$

$$429) \begin{aligned} -18 &= -2y \\ y - 17x + 8 &= 0 \end{aligned}$$

$$430) \begin{aligned} 4x &= -7 - 7y \\ -14y &= -70 - 4x \end{aligned}$$

$$431) \begin{aligned} -11x &= -30 - 6y \\ -18 &= -2y - x \end{aligned}$$

$$432) \begin{aligned} 9 &= y \\ 0 &= y - 8 - x \end{aligned}$$

$$433) \begin{aligned} -4y &= -24 - 9x \\ 0 &= -3x - 24 - 4y \end{aligned}$$

$$434) \begin{aligned} 2y &= -10 - x \\ 2y - 18 &= -15x \end{aligned}$$

$$435) \begin{aligned} 0 &= -2 - x - 2y \\ 18 + 3x + 2y &= 0 \end{aligned}$$

$$436) \begin{aligned} 27 - x - 3y &= 0 \\ 13x &= 6y + 36 \end{aligned}$$

$$437) \begin{aligned} -y &= 6 \\ y &= 2 - 8x \end{aligned}$$

$$438) \begin{aligned} 0 &= -y - 2 + \frac{7}{4}x \\ x - 4y &= 32 \end{aligned}$$

$$439) \begin{aligned} -y &= x + 6 \\ -x - 4y &= 12 \end{aligned}$$

$$440) \begin{aligned} -30 - 5y &= -13x \\ 5y - 3x &= 20 \end{aligned}$$

$$441) \begin{aligned} -6 + x &= 3y \\ -81 + 8x &= -9y \end{aligned}$$

$$442) \begin{aligned} -4y &= -8 + x \\ x &= -y - 4 \end{aligned}$$

$$443) \begin{aligned} 4x - 4 &= y \\ y &= x - 7 \end{aligned}$$

$$444) \begin{aligned} 9y &= -42x + 45 \\ -1 - \frac{1}{8}y &= \frac{1}{24}x \end{aligned}$$

$$445) \begin{aligned} -4x - 5y &= 30 \\ -2 - y &= 0 \end{aligned}$$

$$446) \begin{aligned} 9y &= -81 + 10x \\ x &= 6 + 3y \end{aligned}$$

$$447) \begin{aligned} -x + 3y &= 24 \\ -9y &= 72 + 13x \end{aligned}$$

$$448) \begin{aligned} -8 - 2x - 2y &= 0 \\ 0 &= x - \frac{8}{3} - \frac{1}{3}y \end{aligned}$$

$$449) \begin{aligned} 2x + 2y &= -18 \\ -3y + 15 &= -39x \end{aligned}$$

$$450) \begin{aligned} 0 &= -7x + 12 + 2y \\ \frac{3}{5}y - \frac{9}{20}x &= 3 \end{aligned}$$

$$451) \begin{aligned} -7x &= 30 - 5y \\ -25 - 4x &= 5y \end{aligned}$$

$$452) \begin{aligned} 2y - x &= -2 \\ \frac{1}{9}y &= -1 - \frac{1}{18}x \end{aligned}$$

$$453) \begin{aligned} 8y - 11x &= -72 \\ x &= -2y + 12 \end{aligned}$$

$$454) \begin{aligned} 3y &= 24 + x \\ 6x + 9 &= -9y \end{aligned}$$

$$455) \begin{aligned} 9y &= -45 - x \\ 24 + 4x - 3y &= 0 \end{aligned}$$

$$456) \begin{aligned} x + 7 &= -y \\ 0 &= 1 + y \end{aligned}$$

$$457) \begin{aligned} 0 &= -9 - x - y \\ -\frac{13}{4}x &= 3 - \frac{1}{2}y \end{aligned}$$

$$458) \begin{aligned} 8y + 6x &= 72 \\ -8y + 9x &= 48 \end{aligned}$$

$$459) \begin{aligned} -y + 2x &= -1 \\ 8y &= 64 + 2x \end{aligned}$$

$$460) \begin{aligned} -27 &= -3y - x \\ -x - 3y &= 3 \end{aligned}$$

$$461) \begin{aligned} -\frac{8}{9}x + \frac{1}{9}y &= 1 \\ -2y - 12 &= -x \end{aligned}$$

$$462) \begin{aligned} -y &= 1 - 2x \\ 18 &= -2y - 12x \end{aligned}$$

$$463) \begin{aligned} -6x - 7y &= -63 \\ 0 &= y - 3 \end{aligned}$$

$$464) \begin{aligned} -y - 5 &= x \\ 3y - 21 &= -39x \end{aligned}$$

$$465) \begin{aligned} -3x &= -3y + 15 \\ x - \frac{1}{10}y - \frac{2}{5} &= 0 \end{aligned}$$

$$466) \begin{aligned} -y + 4x + 6 &= 0 \\ 0 &= -2x + 3y + 12 \end{aligned}$$

$$467) \begin{aligned} 12x - 9 - 3y &= 0 \\ 24 &= 3y - x \end{aligned}$$

$$468) \begin{aligned} 16 &= -3x + \frac{8}{3}y \\ 0 &= -4y - 20 - x \end{aligned}$$

$$469) \begin{aligned} -10x &= 6y - 48 \\ x &= -54 - 9y \end{aligned}$$

$$470) \begin{aligned} -x - \frac{21}{2} - \frac{3}{2}y &= 0 \\ 3 - 10x &= 3y \end{aligned}$$

$$471) \begin{aligned} 24 &= 2x + 3y \\ 6 - 3y &= 2x \end{aligned}$$

$$472) \begin{aligned} 6 &= y - x \\ 12x &= y + 5 \end{aligned}$$

$$473) \begin{aligned} 3y + 4x + 27 &= 0 \\ 0 &= 9y - 42x - 81 \end{aligned}$$

$$474) \begin{aligned} 2x &= -18 \\ -9y - 27 - x &= 0 \end{aligned}$$

$$475) \begin{aligned} -\frac{1}{12}x + \frac{1}{3}y &= 1 \\ 24y + 96 &= -15x \end{aligned}$$

$$476) \begin{aligned} 2x + 6 &= y \\ 3x - 27 &= -3y \end{aligned}$$

$$477) \begin{aligned} -2x + 8 &= -y \\ 30 &= x + 6y \end{aligned}$$

$$478) \begin{aligned} -7x - 9y &= -45 \\ \frac{7}{9}x &= 3 - y \end{aligned}$$

$$479) \begin{aligned} -2y + 10 &= -5x \\ x + 4y + 24 &= 0 \end{aligned}$$

$$480) \begin{aligned} 48 &= 16y - 2x \\ 0 &= -24 - 8y + x \end{aligned}$$

$$481) \begin{aligned} -18 &= 2y - x \\ y &= -7x + 6 \end{aligned}$$

$$482) \begin{aligned} -5x - 2y &= 8 \\ -y &= 8 + \frac{1}{2}x \end{aligned}$$

$$483) \begin{aligned} -35 + 12x &= 5y \\ 5y &= 2x + 15 \end{aligned}$$

$$484) \begin{aligned} -4 - 2y + x &= 0 \\ 3x &= -8 + y \end{aligned}$$

$$485) \begin{aligned} -15 &= x - 3y \\ 12 - 4x &= -3y \end{aligned}$$

$$486) \begin{aligned} 2x + 24 &= 3y \\ 7 + x + y &= 0 \end{aligned}$$

$$487) \begin{aligned} -8x &= y - 1 \\ y - 8 &= -x \end{aligned}$$

$$488) \begin{aligned} -x &= y + 7 \\ 7x &= -1 - y \end{aligned}$$

$$489) \begin{aligned} 7x - 5 - 5y &= 0 \\ 25 - 5y &= -x \end{aligned}$$

$$490) \begin{aligned} 0 &= 3x + \frac{27}{5}y - \frac{108}{5} \\ 0 &= 9 + y - \frac{8}{9}x \end{aligned}$$

$$491) \begin{aligned} 4 - 2y &= 18x \\ -9x + 2 &= y \end{aligned}$$

$$492) \begin{aligned} 3x &= 5 + 5y \\ 0 &= -3x + 5y - 25 \end{aligned}$$

$$493) \begin{aligned} -2x &= 9y - 9 \\ -11x - 72 - 9y &= 0 \end{aligned}$$

$$494) \begin{aligned} 0 &= 4y - 7x + 4 \\ -4y &= -x - 20 \end{aligned}$$

$$495) \begin{aligned} -y - 16x - 7 &= 0 \\ -8 + y + x &= 0 \end{aligned}$$

$$496) \begin{aligned} x &= -14 - 2y \\ -3x + 30 &= -6y \end{aligned}$$

$$497) \begin{aligned} -108 &= 12y - 34x \\ 4 &= y - \frac{2}{3}x \end{aligned}$$

$$498) \begin{aligned} -\frac{9}{5}x &= y + 1 \\ 0 &= 35 - 5y - x \end{aligned}$$

$$499) \begin{aligned} 2x - 6 &= 6y \\ 0 &= -2x + \frac{3}{2}y - \frac{15}{2} \end{aligned}$$

$$500) \begin{aligned} -27 - 27y &= -12x \\ -9y - 5x &= -72 \end{aligned}$$

$$501) \begin{aligned} \frac{1}{14}x &= -1 + \frac{1}{14}y \\ 4 + 2y &= 18x \end{aligned}$$

$$502) \begin{aligned} -4 &= -21x - y \\ -2y &= -24 + 42x \end{aligned}$$

$$503) \begin{aligned} 119 + 7y &= -2x \\ 147 &= -21y + 9x \end{aligned}$$

$$504) \begin{aligned} -24 + 2y + x &= 0 \\ 0 &= x + \frac{14}{25}y + \frac{84}{25} \end{aligned}$$

$$505) \begin{aligned} -6 &= -4x - 3y \\ 0 &= -6x + 324 + 27y \end{aligned}$$

$$506) \begin{aligned} -\frac{342}{11} - \frac{19}{11}y &= -x \\ -19y - x &= 114 \end{aligned}$$

$$507) \begin{aligned} 4x + 105 &= -7y \\ 6 - \frac{1}{14}x &= -y \end{aligned}$$

$$508) \begin{aligned} -8x + 18y &= -144 \\ -1 + \frac{1}{3}x &= -\frac{1}{2}y \end{aligned}$$

$$509) -6y - 108 = -14x$$

$$-y = -8 + \frac{5}{9}x$$

$$510) -14 = -4x - 7y$$

$$7y = -16x - 70$$

$$511) 7y + 22x + 63 = 0$$

$$-x + \frac{77}{2} - \frac{7}{2}y = 0$$

$$512) -\frac{10}{323}x = -1 + \frac{1}{19}y$$

$$9 - y = 0$$

$$513) -30x + 11 = -y$$

$$-y - 11 + 30x = 0$$

$$514) x + 12 = -y$$

$$3y = -42 + 3x$$

$$515) -323 = -3x - 17y$$

$$13x - 17y = -51$$

$$516) 27x + 16y = 160$$

$$16y + 160 = -7x$$

$$517) -2 - y = -\frac{8}{15}x$$

$$-29x + 15y = 285$$

$$518) -x + y + 8 = 0$$

$$-7 + y = -14x$$

$$519) 3y + 26x = -54$$

$$-13 - \frac{5}{3}x = -y$$

$$520) 210 = -17x - 15y$$

$$-5y = -45 - 2x$$

$$521) 0 = -165 - 15y - 8x$$

$$210 = 15y - 17x$$

$$522) 14y - 10x - 210 = 0$$

$$105 + 25x = -7y$$

$$523) 1 + \frac{1}{5}y = \frac{9}{20}x$$

$$-x + 4y - 44 = 0$$

$$524) x = -8y + 120$$

$$8y + 17x = -8$$

$$525) 11x = 136 - 8y$$

$$1 - \frac{3}{8}x = -\frac{1}{3}y$$

$$526) -120 - 8y = -17x$$

$$-x = -16y + 288$$

$$527) -16y + 224 - 27x = 0$$

$$3x = -8y - 56$$

$$528) -19y + 3x - 361 = 0$$

$$-x = \frac{19}{33}y - \frac{323}{33}$$

$$529) y + 7 = 0$$

$$0 = 128 - 16y + 15x$$

$$530) 0 = -30 + x - 6y$$

$$y = 9 - x$$

$$531) -x + 6y + 102 = 0$$

$$24 + 4x = -3y$$

$$532) -16y = -9x + 304$$

$$0 = 1 - \frac{1}{15}y + \frac{3}{80}x$$

$$533) 8y = -144 + 21x$$

$$8y = 16 + x$$

$$534) -y - x = 10$$

$$0 = -3 + \frac{1}{2}y$$

$$535) 7y = 77 - x$$

$$6x - 112 = -7y$$

$$536) y = 9 + x$$

$$x + 9 - y = 0$$

$$537) -9y = -162 - 31x$$

$$-7x = -54 - 9y$$

$$538) 0 = 270 - 15y - 34x$$

$$15y = -225 - x$$

$$539) -27x = 64 - 8y$$

$$4y - 3x = -52$$

$$540) -30y - 330 = -2x$$

$$-585 = -69x - 45y$$

$$541) x - \frac{2}{3} + \frac{2}{3}y = 0$$

$$1 = \frac{1}{13}y$$

$$542) 16x = -15y + 225$$

$$16x + 15y = 150$$

$$543) -18 + \frac{7}{5}x = -y$$

$$15y = 7x - 150$$

$$544) 2y = 14$$

$$1 = 6x + y$$

$$545) x + \frac{16}{7}y + \frac{64}{7} = 0$$

$$16y - 13x = 256$$

$$546) 0 = 1 + \frac{1}{6}y$$

$$-2y - 34 = 22x$$

$$547) -\frac{1}{7}y - \frac{3}{119}x = -1$$

$$17y - 289 = 7x$$

$$548) -\frac{85}{11} = -x - \frac{17}{11}y$$

$$-x - 17 = 0$$

$$549) x = -\frac{77}{2} + \frac{7}{2}y$$

$$-7y = 14 - 15x$$

$$550) 70 + 9x = -7y$$

$$7y = -126 - x$$

$$551) 0 = 14x - 18 - 9y$$

$$-3y = 39 - x$$

$$552) 3x - 57 = 3y$$

$$\frac{1}{19}x - \frac{1}{19}y = 1$$

$$553) 0 = -9y - 63 + 2x$$

$$126 - 9y = -23x$$

$$554) -2x = 4$$

$$2y + x = 6$$

$$555) 1 = \frac{1}{12}y + \frac{3}{28}x$$

$$6 = -y$$

$$556) 0 = -4x + 14y - 224$$

$$10 + \frac{24}{7}x = -y$$

$$557) 0 = -5x - 72 - 9y$$

$$x = \frac{9}{11}y - \frac{72}{11}$$

$$558) -x - \frac{1}{6}y = \frac{1}{3}$$

$$2 + y = -6x$$

$$559) -x = \frac{306}{31} + \frac{17}{31}y$$

$$-306 - 17y - 31x = 0$$

$$560) 9x = 224 - 14y$$

$$16 = -y + \frac{23}{14}x$$

$$561) -1 + 8x + y = 0$$

$$17 - y = 0$$

$$562) 0 = -180 - 23x + 18y$$

$$x = 216 + 18y$$

$$563) 14x = -3y + 36$$

$$0 = -6y - 5x - 66$$

$$564) -33 + x - 3y = 0$$

$$-23x + 84 = 6y$$

$$565) 10 + 4x = 5y$$

$$y + x = -16$$

$$566) -21x = 5y - 90$$

$$\frac{21}{5}x = -y + 18$$

$$567) 6x + 40 = -20y$$

$$10y - 80 = 7x$$

$$568) 0 = -96 + x - 6y$$

$$-36 = 18y - 17x$$

$$569) 5x = -13y + 117$$

$$-1 + \frac{2}{13}x = \frac{1}{4}y$$

$$570) 12x = -5y - 85$$

$$-10y - 3x = -40$$

$$571) -12x = -9y + 162$$

$$3y = -28x - 42$$

$$572) 0 = -29x + 13y + 247$$

$$-1 + \frac{1}{18}y = -\frac{4}{117}x$$

$$573) -x + 13y - 208 = 0$$

$$143 - 28x = -13y$$

$$574) 22x - 180 = 36y$$

$$-33x = -270 - 54y$$

$$575) -36 - 3y = 0$$

$$0 = -3y + 31x + 57$$

$$576) -3y + 34x = -45$$

$$x + \frac{39}{34} = \frac{3}{34}y$$

$$577) -4 = -2x - y$$

$$10y = -50 - 2x$$

$$578) -45 - x - 3y = 0$$

$$-8x = 63 - 9y$$

$$579) -19y + 17x = -266$$

$$-28x - 646 = 38y$$

$$580) 0 = 160 + 10y - 46x$$

$$-160 + 46x = 10y$$

$$581) 8x + 132 = 11y$$

$$22y = -66 - 14x$$

$$582) 0 = -5y + 7x - 30$$

$$0 = -1 + \frac{1}{9}y + \frac{8}{45}x$$

$$583) 6y = -108 + 16x$$

$$-27 = 3y - 8x$$

$$584) \begin{aligned} -11y &= 15x + 44 \\ y + 4 + \frac{15}{11}x &= 0 \end{aligned}$$

$$585) \begin{aligned} x + \frac{11}{24}y + \frac{77}{24} &= 0 \\ -198 &= -11y - 24x \end{aligned}$$

$$586) \begin{aligned} -39 - 28x + 3y &= 0 \\ 0 &= -18 - x - y \end{aligned}$$

$$587) \begin{aligned} 5x + 2y &= -38 \\ 4y - 17x - 32 &= 0 \end{aligned}$$

$$588) \begin{aligned} -\frac{36}{7} + \frac{4}{7}y &= -x \\ 21x &= 36y + 684 \end{aligned}$$

$$589) \begin{aligned} -19y + 2x &= 76 \\ 0 &= 2x - 76 - 19y \end{aligned}$$

$$590) \begin{aligned} 4y - 8 &= -7x \\ 0 &= x + 64 + 4y \end{aligned}$$

$$591) \begin{aligned} 190 + 19y &= -11x \\ x + 38 &= 19y \end{aligned}$$

$$592) \begin{aligned} 7x &= 36 + 4y \\ 3x &= 12 \end{aligned}$$

$$593) \begin{aligned} 8 - x &= y \\ -2y + 7x &= 20 \end{aligned}$$

$$594) \begin{aligned} 0 &= 12y + 19x + 144 \\ 64 &= -3x + 4y \end{aligned}$$

$$595) \begin{aligned} -y &= -3x + 1 \\ -3x - 4 &= -y \end{aligned}$$

$$596) \begin{aligned} 0 &= -x - 68 + 4y \\ 4y - x &= -32 \end{aligned}$$

$$597) \begin{aligned} 42 &= 6y - 13x \\ -x + \frac{6}{13}y &= \frac{42}{13} \end{aligned}$$

$$598) \begin{aligned} \frac{5}{9}x - \frac{1}{3}y &= 1 \\ 6y &= -x + 114 \end{aligned}$$

$$599) \begin{aligned} 5x &= -68 - 4y \\ \frac{17}{20}x &= -1 + \frac{1}{5}y \end{aligned}$$

$$600) \begin{aligned} 0 &= -11y - 209 + 4x \\ 11y + 4x &= -121 \end{aligned}$$

Systems of linear equations

Find both x- and y- coordinates of the solution to each system using substitution.

$$\begin{aligned} 1) \quad & 2y + 4 = -3x \\ & 0 = -x + y - 3 \\ & \quad (-2, 1) \end{aligned}$$

$$\begin{aligned} 2) \quad & 0 = -x - 2 + y \\ & -2y - 2 + \frac{1}{2}x = 0 \\ & \quad (-4, -2) \end{aligned}$$

$$\begin{aligned} 3) \quad & -2x - 8y = 8 \\ & 0 = x - 2y - 8 \\ & \quad (4, -2) \end{aligned}$$

$$\begin{aligned} 4) \quad & -3y = -9 - x \\ & 0 = -6y - 18 - 10x \\ & \quad (-3, 2) \end{aligned}$$

$$\begin{aligned} 5) \quad & 6 = -x + 2y \\ & 4x - y = 4 \\ & \quad (2, 4) \end{aligned}$$

$$\begin{aligned} 6) \quad & -12 = 6x + 3y \\ & 1 = y + \frac{1}{3}x \\ & \quad (-3, 2) \end{aligned}$$

$$\begin{aligned} 7) \quad & -3 + 2x = -3y \\ & 0 = 6 + 3y - x \\ & \quad (3, -1) \end{aligned}$$

$$\begin{aligned} 8) \quad & -y = 4 \\ & -3x - 1 = y \\ & \quad (1, -4) \end{aligned}$$

$$\begin{aligned} 9) \quad & -y = -4 + 2x \\ & -2y = 8 - 12x \\ & \quad (1, 2) \end{aligned}$$

$$\begin{aligned} 10) \quad & -\frac{1}{2} = x + \frac{1}{2}y \\ & -y - 4 + x = 0 \\ & \quad (1, -3) \end{aligned}$$

$$\begin{aligned} 11) \quad & -3x = -2y - 4 \\ & -8 + 2y + 3x = 0 \\ & \quad (2, 1) \end{aligned}$$

$$\begin{aligned} 12) \quad & -2 = -x + y \\ & 6x - y = -3 \\ & \quad (-1, -3) \end{aligned}$$

$$\begin{aligned} 13) \quad & 4y - 8 + x = 0 \\ & 7x + 16 = -4y \\ & \quad (-4, 3) \end{aligned}$$

$$\begin{aligned} 14) \quad & x - 4y = -12 \\ & 6x - 4y - 8 = 0 \\ & \quad (4, 4) \end{aligned}$$

$$\begin{aligned} 15) \quad & -2y + 2 = -3x \\ & 4 = -x - y \\ & \quad (-2, -2) \end{aligned}$$

$$\begin{aligned} 16) \quad & -4 + y = -2x \\ & -3 - y + 5x = 0 \\ & \quad (1, 2) \end{aligned}$$

$$\begin{aligned} 17) \quad & -\frac{2}{3}x = -1 + \frac{1}{4}y \\ & -6 = 3y + 2x \\ & \quad (3, -4) \end{aligned}$$

$$\begin{aligned} 18) \quad & -2y - 3x = 8 \\ & 3x = -4 + 2y \\ & \quad (-2, -1) \end{aligned}$$

$$\begin{aligned} 19) \quad & -3y - 12 - 9x = 0 \\ & -x = -y + 4 \\ & \quad (-2, 2) \end{aligned}$$

$$\begin{aligned} 20) \quad & 24 = -21x + 6y \\ & 4 + 2y - x = 0 \\ & \quad (-2, -3) \end{aligned}$$

$$\begin{aligned} 21) \quad & 0 = -y + 3 - 3x \\ & 3x - 24 = 6y \\ & \quad (2, -3) \end{aligned}$$

$$\begin{aligned} 22) \quad & -y - 4x = 1 \\ & 4 + x = y \\ & \quad (-1, 3) \end{aligned}$$

$$\begin{aligned} 23) \quad & 2x - 1 = -y \\ & 4 + 2y + x = 0 \\ & \quad (2, -3) \end{aligned}$$

$$\begin{aligned} 24) \quad & 0 = 3 - 5x - y \\ & 2x - 6 = 2y \\ & \quad (1, -2) \end{aligned}$$

$$\begin{aligned} 25) \quad & 0 = -3 - x - y \\ & 8 = -x + 4y \\ & \quad (-4, 1) \end{aligned}$$

$$\begin{aligned} 26) \quad & 7x = -3 - y \\ & -3 + y = -x \\ & \quad (-1, 4) \end{aligned}$$

$$27) \begin{aligned} -9x &= -12y - 48 \\ 0 &= -8 + 4y + 3x \\ (4, -1) \end{aligned}$$

$$29) \begin{aligned} 0 &= -6 - 2y + x \\ -9x + 6y &= -6 \\ (-2, -4) \end{aligned}$$

$$31) \begin{aligned} 3x &= -12y + 36 \\ 4y - 3x &= -4 \\ (4, 2) \end{aligned}$$

$$33) \begin{aligned} -6 &= -3y + x \\ y &= 2x - 3 \\ (3, 3) \end{aligned}$$

$$35) \begin{aligned} -x &= -\frac{1}{2}y + \frac{3}{2} \\ -9 &= 12x + 3y \\ (-1, 1) \end{aligned}$$

$$37) \begin{aligned} 36 + 12y &= 3x \\ 3x + 4y - 4 &= 0 \\ (4, -2) \end{aligned}$$

$$39) \begin{aligned} 3x &= 12y + 24 \\ 3x - 8 &= -4y \\ (4, -1) \end{aligned}$$

$$41) \begin{aligned} 6 + 3y &= -4x \\ 3y - 2x - 12 &= 0 \\ (-3, 2) \end{aligned}$$

$$43) \begin{aligned} x &= -2y + 2 \\ 0 &= -16 - x + 4y \\ (-4, 3) \end{aligned}$$

$$45) \begin{aligned} 2y - 4 &= -x \\ -3 + 2x &= y \\ (2, 1) \end{aligned}$$

$$47) \begin{aligned} 2 + 2y &= x \\ y &= 4 + 3x \\ (-2, -2) \end{aligned}$$

$$49) \begin{aligned} -7x &= 3 - y \\ -2x + 2y + 6 &= 0 \\ (-1, -4) \end{aligned}$$

$$51) \begin{aligned} -1 - \frac{1}{12}x - \frac{1}{3}y &= 0 \\ x - 2 &= -\frac{1}{2}y \\ (4, -4) \end{aligned}$$

$$28) \begin{aligned} 4y - 5x &= -16 \\ -\frac{1}{6}x &= -1 + \frac{1}{3}y \\ (4, 1) \end{aligned}$$

$$30) \begin{aligned} 0 &= 6 + 3y - x \\ 6 &= 2y - 4x \\ (-3, -3) \end{aligned}$$

$$32) \begin{aligned} -y + \frac{1}{2}x &= 3 \\ y + x &= 3 \\ (4, -1) \end{aligned}$$

$$34) \begin{aligned} x &= y - 3 \\ -y + 7x - 3 &= 0 \\ (1, 4) \end{aligned}$$

$$36) \begin{aligned} -3x &= 9 - 3y \\ -1 &= -y \\ (-2, 1) \end{aligned}$$

$$38) \begin{aligned} 0 &= 8 - x + 4y \\ -1 &= \frac{1}{2}x - \frac{1}{3}y \\ (-4, -3) \end{aligned}$$

$$40) \begin{aligned} y &= -8x + 4 \\ y + x &= -3 \\ (1, -4) \end{aligned}$$

$$42) \begin{aligned} y - 2 &= x \\ \frac{7}{4}x &= 1 + \frac{1}{4}y \\ (1, 3) \end{aligned}$$

$$44) \begin{aligned} -y + 5x + 2 &= 0 \\ -y &= 2 - x \\ (-1, -3) \end{aligned}$$

$$46) \begin{aligned} 3x - 4 &= 2y \\ 0 &= -36 - 3x + 12y \\ (4, 4) \end{aligned}$$

$$48) \begin{aligned} -2y - 6 &= -8x \\ -4 + 2x &= -2y \\ (1, 1) \end{aligned}$$

$$50) \begin{aligned} x + 4 &= -y \\ -2x - 3 &= -3y \\ (-3, -1) \end{aligned}$$

$$52) \begin{aligned} -9 + 7x &= -3y \\ 9 + 3y &= -x \\ (3, -4) \end{aligned}$$

53) $2x + y = -3$
 $-1 + \frac{1}{2}y = -\frac{1}{6}x$
(-3, 3)

55) $3y = -24x - 12$
 $-9 = -3y - 3x$
(-1, 4)

57) $0 = y - 2x - 4$
 $-x = -4 - 2y$
(-4, -4)

59) $3x + y = 2$
 $0 = 3x - 4 - y$
(1, -1)

61) $4x - y = 4$
 $0 = 2 + x - y$
(2, 4)

63) $3y - 2x = -6$
 $0 = -3y + 9 + 7x$
(-3, -4)

65) $y = -1$
 $-3x + 2y = -8$
(2, -1)

67) $-1 + 5x - y = 0$
 $-x = -y + 3$
(1, 4)

69) $-8y + 24 = -10x$
 $0 = -4 + x - 4y$
(-4, -2)

71) $-4y = 5x - 16$
 $0 = -y - 1$
(4, -1)

73) $-x + 3 + y = 0$
 $5x - y + 1 = 0$
(-1, -4)

75) $4x + 1 - y = 0$
 $-4 - 2y = -2x$
(-1, -3)

77) $-1 = \frac{1}{2}y$
 $-2y + 6 = -5x$
(-2, -2)

79) $-4y = -12 + x$
 $2y = -3x - 4$
(-4, 4)

54) $-5x = -4 + 2y$
 $-4 - 2y = x$
(2, -3)

56) $-4 + 2x - y = 0$
 $-12x + 6 - 3y = 0$
(1, -2)

58) $x + 2y = 6$
 $-y - 4x = 4$
(-2, 4)

60) $1 - y = 0$
 $8 = -4y + 3x$
(4, 1)

62) $x - y = 1$
 $0 = -2x - 3y + 12$
(3, 2)

64) $4 + x = 2y$
 $-7x = -8 - 2y$
(2, 3)

66) $36 + 21x - 9y = 0$
 $-6 + x = 3y$
(-3, -3)

68) $-9 - 3x + 3y = 0$
 $0 = y + 1 + x$
(-2, 1)

70) $-1 = -\frac{1}{2}y$
 $y = -1 - x$
(-3, 2)

72) $3y - 6 = -3x$
 $9 + 3y = 2x$
(3, -1)

74) $-3y = -12 - x$
 $-3 = -2x - 3y$
(-3, 3)

76) $-4 = y + 6x$
 $-3 = x - y$
(-1, 2)

78) $0 = x - y - 1$
 $-2 = -x$
(2, 1)

80) $0 = x - y + 1$
 $-4 = -y - 2x$
(1, 2)

$$81) \begin{aligned} 0 &= 4 + x - 2y \\ 7x &= 4y + 12 \\ (4, 4) \end{aligned}$$

$$83) \begin{aligned} 0 &= x + \frac{8}{3} + \frac{2}{3}y \\ -y &= -3 - 2x \\ (-2, -1) \end{aligned}$$

$$85) \begin{aligned} 5x &= 3y - 12 \\ 3y &= -2x - 9 \\ (-3, -1) \end{aligned}$$

$$87) \begin{aligned} y - \frac{1}{2}x &= -3 \\ 5x - 6 &= -2y \\ (2, -2) \end{aligned}$$

$$89) \begin{aligned} -2y - 2 &= -x \\ x &= -4y + 8 \\ (4, 1) \end{aligned}$$

$$91) \begin{aligned} -4 - y &= 0 \\ 0 &= 3y - 6x - 12 \\ (-4, -4) \end{aligned}$$

$$93) \begin{aligned} x &= 9 - 3y \\ 0 &= -x + y + 1 \\ (3, 2) \end{aligned}$$

$$95) \begin{aligned} 0 &= 9 - 3y - 4x \\ 4 + y &= x \\ (3, -1) \end{aligned}$$

$$97) \begin{aligned} 3y + 12 &= 7x \\ 3y - 12 + x &= 0 \\ (3, 3) \end{aligned}$$

$$99) \begin{aligned} 0 &= -5x + 2y + 4 \\ 0 &= x + 2y - 8 \\ (2, 3) \end{aligned}$$

$$101) \begin{aligned} 6 + y &= 2x \\ 0 &= -y - 2 \\ (2, -2) \end{aligned}$$

$$103) \begin{aligned} 5y - 14x &= 30 \\ 0 &= -35 + x - 5y \\ (-5, -8) \end{aligned}$$

$$105) \begin{aligned} x - 12 + 4y &= 0 \\ 8y &= -72 + 22x \\ (4, 2) \end{aligned}$$

$$107) \begin{aligned} 48 + 22x &= 12y \\ 6y + x &= -48 \\ (-6, -7) \end{aligned}$$

$$82) \begin{aligned} 0 &= -x - 12 + 3y \\ -24 - 6y &= 14x \\ (-3, 3) \end{aligned}$$

$$84) \begin{aligned} -9 + 7x &= -3y \\ 0 &= 3 + x + \frac{3}{2}y \\ (3, -4) \end{aligned}$$

$$86) \begin{aligned} 0 &= x - 3 \\ -x &= -12 - 3y \\ (3, -3) \end{aligned}$$

$$88) \begin{aligned} 7x + 4 &= -y \\ -1 + \frac{1}{2}y + \frac{1}{2}x &= 0 \\ (-1, 3) \end{aligned}$$

$$90) \begin{aligned} -2x - y &= -1 \\ 2x &= 3 + y \\ (1, -1) \end{aligned}$$

$$92) \begin{aligned} -3 + y &= -x \\ y &= -3 - 7x \\ (-1, 4) \end{aligned}$$

$$94) \begin{aligned} -9y &= -15x - 9 \\ 3x - 9y &= 27 \\ (-3, -4) \end{aligned}$$

$$96) \begin{aligned} 0 &= 18 + 9x - 6y \\ -2 - 2y &= -x \\ (-4, -3) \end{aligned}$$

$$98) \begin{aligned} 2 &= y + x \\ -8y &= 8 + 2x \\ (4, -2) \end{aligned}$$

$$100) \begin{aligned} -1 - \frac{1}{4}y + \frac{3}{8}x &= 0 \\ -2y - 3x &= -4 \\ (2, -1) \end{aligned}$$

$$102) \begin{aligned} -4y &= 12 + x \\ -4y + 20 &= 5x \\ (8, -5) \end{aligned}$$

$$104) \begin{aligned} y + 2x &= -6 \\ -84 &= -14y - 4x \\ (-7, 8) \end{aligned}$$

$$106) \begin{aligned} 3y + 3 + 9x &= 0 \\ 8 &= x + 2y \\ (-2, 5) \end{aligned}$$

$$108) \begin{aligned} 27 &= -3y + \frac{15}{7}x \\ 0 &= -84 + 24x + 21y \\ (7, -4) \end{aligned}$$

$$109) \begin{aligned} -3y - 27 &= -11x \\ 0 &= -9 + 3y + x \\ (3, 2) \end{aligned}$$

$$111) \begin{aligned} -6 + \frac{5}{2}x &= y \\ 3y - 18 + \frac{21}{2}x &= 0 \\ (2, -1) \end{aligned}$$

$$113) \begin{aligned} 8y + 15x &= -48 \\ 8y - 48 + 3x &= 0 \\ (-8, 9) \end{aligned}$$

$$115) \begin{aligned} -8x &= -18 - 2y \\ 0 &= 4x + 3y - 21 \\ (3, 3) \end{aligned}$$

$$117) \begin{aligned} x &= 3y - 21 \\ 0 &= 3 - 3y - 5x \\ (-3, 6) \end{aligned}$$

$$119) \begin{aligned} -20 &= 4y - 3x \\ 9 - x &= y \\ (8, 1) \end{aligned}$$

$$121) \begin{aligned} 3x - 9 + y &= 0 \\ -8 &= -7x + 2y \\ (2, 3) \end{aligned}$$

$$123) \begin{aligned} -2x &= -9y - 63 \\ -9y + 11x &= -18 \\ (-9, -9) \end{aligned}$$

$$125) \begin{aligned} 0 &= -9 + y - \frac{15}{8}x \\ -32 + 2x - 8y &= 0 \\ (-8, -6) \end{aligned}$$

$$127) \begin{aligned} x &= -6 + 3y \\ -\frac{1}{5}y &= 1 + \frac{2}{5}x \\ (-3, 1) \end{aligned}$$

$$129) \begin{aligned} 3y + 4x &= 12 \\ 0 &= x - 9 \\ (9, -8) \end{aligned}$$

$$131) \begin{aligned} 8y - 3x &= -16 \\ \frac{1}{7}y - \frac{3}{14}x &= 1 \\ (-8, -5) \end{aligned}$$

$$133) \begin{aligned} 0 &= -10y - 16x + 60 \\ -1 - \frac{1}{3}y &= -\frac{1}{15}x \\ (5, -2) \end{aligned}$$

$$110) \begin{aligned} y - 8 &= x \\ -y &= 6x + 6 \\ (-2, 6) \end{aligned}$$

$$112) \begin{aligned} 27 + 3y &= -x \\ -2x + 2 &= -2y \\ (-6, -7) \end{aligned}$$

$$114) \begin{aligned} -21y - 42 - 6x &= 0 \\ -112 + 24x + 14y &= 0 \\ (7, -4) \end{aligned}$$

$$116) \begin{aligned} x + 6 + y &= 0 \\ 8x &= 14y - 70 \\ (-7, 1) \end{aligned}$$

$$118) \begin{aligned} 0 &= -y + 9 \\ -4y + 12 - 3x &= 0 \\ (-8, 9) \end{aligned}$$

$$120) \begin{aligned} -63 &= 7y + 3x \\ 13x &= 7y - 49 \\ (-7, -6) \end{aligned}$$

$$122) \begin{aligned} -12 + 5x &= -6y \\ -x &= -6y - 24 \\ (6, -3) \end{aligned}$$

$$124) \begin{aligned} 0 &= -9 + y - \frac{2}{3}x \\ 6y + 4x &= 30 \\ (-3, 7) \end{aligned}$$

$$126) \begin{aligned} -5x - 2y &= -18 \\ -2y + 8x &= 8 \\ (2, 4) \end{aligned}$$

$$128) \begin{aligned} -24 + x &= -4y \\ -2y + x &= -18 \\ (-4, 7) \end{aligned}$$

$$130) \begin{aligned} 0 &= -2x - 3y + 6 \\ \frac{1}{8}x &= 1 + \frac{1}{8}y \\ (6, -2) \end{aligned}$$

$$132) \begin{aligned} y - 2x &= -9 \\ 0 &= 5 + 5y - 2x \\ (5, 1) \end{aligned}$$

$$134) \begin{aligned} 30 - 5y &= 2x \\ 5y + 15 + 11x &= 0 \\ (-5, 8) \end{aligned}$$

$$135) \begin{aligned} -3x &= -8 + y \\ 0 &= x - \frac{1}{2}y + \frac{3}{2} \end{aligned}$$

(1, 5)

$$137) \begin{aligned} 2x &= \frac{54}{11} - \frac{18}{11}y \\ 243 &= -27y + 3x \end{aligned}$$

(9, -8)

$$139) \begin{aligned} 14x &= -81 + 9y \\ 6x - 27y - 81 &= 0 \end{aligned}$$

(-9, -5)

$$141) \begin{aligned} 96 + 24y &= -9x \\ -36 - 4y + x &= 0 \end{aligned}$$

(8, -7)

$$143) \begin{aligned} 10 &= 7x + 5y \\ 5y &= -x + 40 \end{aligned}$$

(-5, 9)

$$145) \begin{aligned} -\frac{11}{63}x &= 1 - \frac{1}{7}y \\ -1 - \frac{1}{8}y &= \frac{1}{18}x \end{aligned}$$

(-9, -4)

$$147) \begin{aligned} -x &= -12 + 3y \\ -54 &= 3x - 6y \end{aligned}$$

(-6, 6)

$$149) \begin{aligned} 9y + 2x + 9 &= 0 \\ 9y &= -10x + 63 \end{aligned}$$

(9, -3)

$$151) \begin{aligned} 4 &= x + 2y \\ 12 &= 2y - 3x \end{aligned}$$

(-2, 3)

$$153) \begin{aligned} -y &= -9 - 3x \\ 5 &= x + y \end{aligned}$$

(-1, 6)

$$155) \begin{aligned} 7y - 3x + 63 &= 0 \\ -7y - 5x &= 7 \end{aligned}$$

(7, -6)

$$157) \begin{aligned} -7 + 7y &= -6x \\ x - 42 &= 7y \end{aligned}$$

(7, -5)

$$159) \begin{aligned} y - 7 &= 0 \\ 3x - 4 &= -4y \end{aligned}$$

(-8, 7)

$$161) \begin{aligned} 5x + 27 &= 3y \\ 3y + 18 &= -10x \end{aligned}$$

(-3, 4)

$$136) \begin{aligned} -5y &= -30 + 7x \\ 2x - 15 - 5y &= 0 \end{aligned}$$

(5, -1)

$$138) \begin{aligned} 9 &= 3y - 3x \\ 4x &= -2 - y \end{aligned}$$

(-1, 2)

$$140) \begin{aligned} -10 &= -7x + 5y \\ 10y &= 60 - 2x \end{aligned}$$

(5, 5)

$$142) \begin{aligned} 2x &= 1 - y \\ 0 &= y - 4 - x \end{aligned}$$

(-1, 3)

$$144) \begin{aligned} 2y &= -x + 2 \\ 2y + 6 &= x \end{aligned}$$

(4, -1)

$$146) \begin{aligned} -15 &= -3y - 2x \\ 21 &= -3y - 8x \end{aligned}$$

(-6, 9)

$$148) \begin{aligned} 0 &= -4y - 3x - 4 \\ 0 &= -7 - y \end{aligned}$$

(8, -7)

$$150) \begin{aligned} -12y &= 84 - 22x \\ 18 + x &= 6y \end{aligned}$$

(6, 4)

$$152) \begin{aligned} 24 + 13x &= 6y \\ -x &= -3y - 21 \end{aligned}$$

(-6, -9)

$$154) \begin{aligned} 0 &= 7 - y - 2x \\ -y + x &= 2 \end{aligned}$$

(3, 1)

$$156) \begin{aligned} -2x - y &= 2 \\ 7 &= -x + y \end{aligned}$$

(-3, 4)

$$158) \begin{aligned} 0 &= x + 1 + y \\ 9x - 7 &= -y \end{aligned}$$

(1, -2)

$$160) \begin{aligned} 5 &= 2x + y \\ -5x + y + 9 &= 0 \end{aligned}$$

(2, 1)

$$162) \begin{aligned} 7y + 28 - 4x &= 0 \\ -7y + 56 + 16x &= 0 \end{aligned}$$

(-7, -8)

$$163) 112 + 14y = 2x$$

$$0 = y - 2 - \frac{11}{7}x$$

$$(-7, -9)$$

$$165) 0 = -y + 2$$

$$-y = -8 + 3x$$

$$(2, 2)$$

$$167) 5y = -15 - x$$

$$-y = 9 + \frac{7}{5}x$$

$$(-5, -2)$$

$$169) -3x + 6y = -24$$

$$y = 8 + 2x$$

$$(-8, -8)$$

$$171) -5x - 3y - 21 = 0$$

$$63 = x + 9y$$

$$(-9, 8)$$

$$173) 6x + 72 - 8y = 0$$

$$-7x = 2y + 16$$

$$(-4, 6)$$

$$175) 0 = -1 + y - x$$

$$-6 = -10x + 2y$$

$$(1, 2)$$

$$177) 0 = -6 - x + 2y$$

$$12 + 4y = -x$$

$$(-8, -1)$$

$$179) -x = -9$$

$$-3y + 9 = -2x$$

$$(9, 9)$$

$$181) -9x = 7y - 56$$

$$3x = 7y + 28$$

$$(7, -1)$$

$$183) -1 - \frac{13}{63}x + \frac{1}{7}y = 0$$

$$-63 - x = 9y$$

$$(-9, -6)$$

$$185) -5y - 35 = 14x$$

$$-40 + 10y = -6x$$

$$(-5, 7)$$

$$187) 0 = 36 - 7x + 4y$$

$$-20 + 4y + 7x = 0$$

$$(4, -2)$$

$$189) 7y = 8x - 28$$

$$56 = 4x + 7y$$

$$(7, 4)$$

$$164) \frac{17}{81}x + \frac{1}{9}y = -1$$

$$15 = 3y + x$$

$$(-9, 8)$$

$$166) -4y - 2x = 8$$

$$-54 = 6y - 4x$$

$$(6, -5)$$

$$168) -8 + 4y = -3x$$

$$14 = 2y - x$$

$$(-4, 5)$$

$$170) -5y = -45 + 13x$$

$$-4 = y$$

$$(5, -4)$$

$$172) 1 - \frac{1}{3}y = \frac{4}{9}x$$

$$-24 + 7x = 3y$$

$$(3, -1)$$

$$174) -5x - 36 = -9y$$

$$5x = 3y + 18$$

$$(9, 9)$$

$$176) -15 + 24x - 3y = 0$$

$$-y = -4 + x$$

$$(1, 3)$$

$$178) 16 + 9x = 8y$$

$$64 + 8y = -x$$

$$(-8, -7)$$

$$180) 0 = -32 + 5x - 4y$$

$$x = -4y - 8$$

$$(4, -3)$$

$$182) 0 = -x + 8y - 32$$

$$5x + 16 = -8y$$

$$(-8, 3)$$

$$184) 0 = 3y - 21 - \frac{3}{5}x$$

$$-x - y + 1 = 0$$

$$(-5, 6)$$

$$186) 96 + 16y = -6x$$

$$-20 = -7x - 4y$$

$$(8, -9)$$

$$188) 1 + y + x = 0$$

$$-3x + 6y - 12 = 0$$

$$(-2, 1)$$

$$190) 3y + 8x = -27$$

$$x + 3y - 15 = 0$$

$$(-6, 7)$$

$$191) 2x - \frac{126}{13} + \frac{18}{13}y = 0$$

$$-x + 63 = -9y$$

$$(9, -6)$$

$$193) x - 7y - 63 = 0$$

$$3y + 6x = 18$$

$$(7, -8)$$

$$195) -9y + 21x - 81 = 0$$

$$6 = y + \frac{8}{3}x$$

$$(3, -2)$$

$$197) -y - 3 = 8x$$

$$x = y - 6$$

$$(-1, 5)$$

$$199) 0 = 6 + 2x + y$$

$$-147 = -21y - 3x$$

$$(-7, 8)$$

$$201) 204 + 12y - 45x = 0$$

$$-12y = -60 + 21x$$

$$(4, -2)$$

$$203) 0 = y - 5$$

$$0 = -7 - y + 3x$$

$$(4, 5)$$

$$205) x + 2y - 26 = 0$$

$$8 - y + \frac{3}{4}x = 0$$

$$(4, 11)$$

$$207) 0 = 11 - y - \frac{1}{4}x$$

$$-\frac{31}{4}x = 51 + 3y$$

$$(-12, 14)$$

$$209) -48 = 6y - 5x$$

$$12y = -228 - x$$

$$(-12, -18)$$

$$211) -15 = 3y$$

$$-12y + 144 = -51x$$

$$(-4, -5)$$

$$213) -2y + 32 = -6x$$

$$65 = -5y - 14x$$

$$(-5, 1)$$

$$215) -3y - 7x = -45$$

$$1 - \frac{1}{2}y = -x$$

$$(3, 8)$$

$$192) 90 = 20x + 18y$$

$$9y = -x - 36$$

$$(9, -5)$$

$$194) \frac{1}{3}y = -x - \frac{5}{3}$$

$$2y - 5x = 12$$

$$(-2, 1)$$

$$196) 28 + 4y = x$$

$$-4y + 36 - 7x = 0$$

$$(8, -5)$$

$$198) 7y + 6x = -14$$

$$7y + 63 = x$$

$$(7, -8)$$

$$200) -27 + 3y = -10x$$

$$3y = 5x - 18$$

$$(3, -1)$$

$$202) 20x = 19y + 361$$

$$-18x = -361 + 19y$$

$$(19, 1)$$

$$204) 11x = 12y - 228$$

$$1 - \frac{7}{12}x = y$$

$$(-12, 8)$$

$$206) -5x - 156 = -12y$$

$$2y = -12 + 4x$$

$$(12, 18)$$

$$208) 110 + 5x + 11y = 0$$

$$-44 + 11y = -19x$$

$$(11, -15)$$

$$210) 16x = -11y + 88$$

$$-11y - 77 = x$$

$$(11, -8)$$

$$212) -20 + 2y - 11x = 0$$

$$52 + x = -4y$$

$$(-4, -12)$$

$$214) 0 = 76 + 19y - 9x$$

$$-19y - 9x + 266 = 0$$

$$(19, 5)$$

$$216) -13x = 19y - 209$$

$$-16x = -342 - 19y$$

$$(19, -2)$$

$$217) \begin{aligned} 72 + 12y &= -17x \\ -7x &= -12y + 216 \\ (-12, 11) \end{aligned}$$

$$219) \begin{aligned} -33 &= -21x - 11y \\ -176 &= 2x + 11y \\ (11, -18) \end{aligned}$$

$$221) \begin{aligned} 6x &= 5y + 85 \\ -195 + 15y &= -27x \\ (10, -5) \end{aligned}$$

$$223) \begin{aligned} -110 &= 11y + x \\ 33y &= -99 - 24x \\ (11, -11) \end{aligned}$$

$$225) \begin{aligned} 40 + 5y &= -13x \\ y - 15 &= 2x \\ (-5, 5) \end{aligned}$$

$$227) \begin{aligned} 0 &= -17x + 342 - 18y \\ -2x - 36y + 108 &= 0 \\ (18, 2) \end{aligned}$$

$$229) \begin{aligned} -13 + y &= -x \\ -y &= -11 \\ (2, 11) \end{aligned}$$

$$231) \begin{aligned} 13 + 13y &= 17x \\ -2x + 13y + 208 &= 0 \\ (-13, -18) \end{aligned}$$

$$233) \begin{aligned} 1 - \frac{1}{7}y &= \frac{3}{14}x \\ x - 26 &= 2y \\ (10, -8) \end{aligned}$$

$$235) \begin{aligned} -y &= 13 + \frac{4}{7}x \\ -91 &= 9x - 7y \\ (-14, -5) \end{aligned}$$

$$237) \begin{aligned} 15 &= 5y + 2x \\ -40 - 10y &= -3x \\ (10, -1) \end{aligned}$$

$$239) \begin{aligned} x + 3y - 18 &= 0 \\ 0 &= -30 - 13x - 6y \\ (-6, 8) \end{aligned}$$

$$241) \begin{aligned} 255 &= 17y - 3x \\ -21x &= -51 - 17y \\ (17, 18) \end{aligned}$$

$$218) \begin{aligned} -3y + 15 &= -10x \\ -x - 3y &= -48 \\ (3, 15) \end{aligned}$$

$$220) \begin{aligned} 13y + 22x &= -52 \\ -15x - 39y &= -507 \\ (-13, 18) \end{aligned}$$

$$222) \begin{aligned} 0 &= y - 4x - 12 \\ 0 &= 6x + 70 + 5y \\ (-5, -8) \end{aligned}$$

$$224) \begin{aligned} y + 8 - \frac{7}{13}x &= 0 \\ -13y - 234 &= 3x \\ (-13, -15) \end{aligned}$$

$$226) \begin{aligned} 5y &= -70 - 12x \\ -18x &= -5y + 80 \\ (-5, -2) \end{aligned}$$

$$228) \begin{aligned} 18y - 180 &= -2x \\ 7x - 54 &= 9y \\ (18, 8) \end{aligned}$$

$$230) \begin{aligned} 2y &= 36 \\ 21x - 2y &= 6 \\ (2, 18) \end{aligned}$$

$$232) \begin{aligned} 19 - 2x &= -y \\ 20 - 2y &= 25x \\ (2, -15) \end{aligned}$$

$$234) \begin{aligned} y &= 5 + \frac{8}{7}x \\ x - \frac{112}{3} &= \frac{14}{3}y \\ (-14, -11) \end{aligned}$$

$$236) \begin{aligned} 0 &= -y + 5 + \frac{5}{9}x \\ 0 &= 16 + y - \frac{31}{18}x \\ (18, 15) \end{aligned}$$

$$238) \begin{aligned} -18x &= -80 - 20y \\ 5y &= -x + 35 \\ (10, 5) \end{aligned}$$

$$240) \begin{aligned} y &= 16 + \frac{7}{3}x \\ -38 - 7x - 2y &= 0 \\ (-6, 2) \end{aligned}$$

$$242) \begin{aligned} -x &= -84 + 6y \\ 11x - 24 &= -6y \\ (-6, 15) \end{aligned}$$

$$243) \begin{aligned} x &= 2 \\ 2y &= -38 + x \\ (2, -18) \end{aligned}$$

$$245) \begin{aligned} 714 &= 6x + 51y \\ 0 &= -17y - 17 + 13x \\ (17, 12) \end{aligned}$$

$$247) \begin{aligned} -3y &= 21 - 6x \\ -33x &= -18 + 3y \\ (1, -5) \end{aligned}$$

$$249) \begin{aligned} 10x + 9y - 108 &= 0 \\ 0 &= 9 - x \\ (9, 2) \end{aligned}$$

$$251) \begin{aligned} 120 + 15y &= -13x \\ 40 - 5y &= -x \\ (-15, 5) \end{aligned}$$

$$253) \begin{aligned} -x - \frac{7}{30}y &= \frac{21}{5} \\ 7y &= 3x + 105 \\ (-7, 12) \end{aligned}$$

$$255) \begin{aligned} 160 + 7x + 16y &= 0 \\ y + \frac{17}{8}x &= 17 \\ (16, -17) \end{aligned}$$

$$257) \begin{aligned} -3 - \frac{3}{10}y &= -\frac{6}{35}x \\ -7y + 7 &= -15x \\ (-7, -14) \end{aligned}$$

$$259) \begin{aligned} y &= -19x + 11 \\ -y &= 10 - 2x \\ (1, -8) \end{aligned}$$

$$261) \begin{aligned} 2y - 8 &= -x \\ -528 &= -21x + 48y \\ (16, -4) \end{aligned}$$

$$263) \begin{aligned} -60 &= -2x - 10y \\ -9y &= 99 + 12x \\ (-15, 9) \end{aligned}$$

$$265) \begin{aligned} y + \frac{7}{19}x &= -2 \\ 12x &= -323 + 19y \\ (-19, 5) \end{aligned}$$

$$267) \begin{aligned} 120 + 8y &= x \\ -56 - 8y &= 7x \\ (8, -14) \end{aligned}$$

$$244) \begin{aligned} 2y &= 8x - 30 \\ -8 &= 3x + y \\ (1, -11) \end{aligned}$$

$$246) \begin{aligned} -408 &= -51y - 66x \\ 51y + 15x &= -459 \\ (17, -14) \end{aligned}$$

$$248) \begin{aligned} 0 &= 2y + x + 30 \\ -14y + 14 &= -9x \\ (-14, -8) \end{aligned}$$

$$250) \begin{aligned} -y &= 16 + \frac{15}{14}x \\ -12 + 2y &= x \\ (-14, -1) \end{aligned}$$

$$252) \begin{aligned} -9y &= x - 90 \\ 27y - 39x &= -108 \\ (9, 9) \end{aligned}$$

$$254) \begin{aligned} 14y &= 266 + 2x \\ -y &= 10 + 4x \\ (-7, 18) \end{aligned}$$

$$256) \begin{aligned} -9 &= 4x - 3y \\ -4x + 9y &= 99 \\ (9, 15) \end{aligned}$$

$$258) \begin{aligned} -96 - 16y &= 5x \\ -16 &= -x \\ (16, -11) \end{aligned}$$

$$260) \begin{aligned} -4x &= 15y + 75 \\ -x + y &= 14 \\ (-15, -1) \end{aligned}$$

$$262) \begin{aligned} 15y - 15 &= -x \\ -3y &= 2x + 24 \\ (-15, 2) \end{aligned}$$

$$264) \begin{aligned} -8 &= -4y + 5x \\ -8y &= 7x - 152 \\ (8, 12) \end{aligned}$$

$$266) \begin{aligned} x - 2y &= -30 \\ -\frac{18}{7} &= -x + \frac{2}{7}y \\ (8, 19) \end{aligned}$$

$$268) \begin{aligned} -x + 4y - 76 &= 0 \\ -1 &= -\frac{1}{2}y - \frac{13}{32}x \\ (-16, 15) \end{aligned}$$

$$269) \begin{aligned} 128 + 27x &= 8y \\ -36 - 4y + x &= 0 \\ (-8, -11) \end{aligned}$$

$$271) \begin{aligned} 4y &= 56 + 9x \\ 5x + 8 &= 8y \\ (-8, -4) \end{aligned}$$

$$273) \begin{aligned} -2 + \frac{1}{22}x &= \frac{2}{11}y \\ -3x + 20 &= 4y \\ (16, -7) \end{aligned}$$

$$275) \begin{aligned} -14x + 225 + 15y &= 0 \\ -240 &= -17x - 15y \\ (15, -1) \end{aligned}$$

$$277) \begin{aligned} 17 &= -y + \frac{23}{15}x \\ \frac{15}{2} &= -x + \frac{15}{4}y \\ (15, 6) \end{aligned}$$

$$279) \begin{aligned} 0 &= x + 2y - 22 \\ 105x &= -768 - 48y \\ (-16, 19) \end{aligned}$$

$$281) \begin{aligned} -3y + 2x &= 3 \\ -20x + 9y &= 117 \\ (-9, -7) \end{aligned}$$

$$283) \begin{aligned} -6x + 8 &= -4y \\ -8y + x &= 104 \\ (-8, -14) \end{aligned}$$

$$285) \begin{aligned} -35 + x &= 5y \\ 45y &= -48x + 540 \\ (15, -4) \end{aligned}$$

$$287) \begin{aligned} -90 &= -45y + 3x \\ 15y + 9x &= 180 \\ (15, 3) \end{aligned}$$

$$289) \begin{aligned} -1 + \frac{1}{7}y - \frac{1}{7}x &= 0 \\ y &= 18 + 12x \\ (-1, 6) \end{aligned}$$

$$291) \begin{aligned} -3x + 238 &= -17y \\ -\frac{187}{28} &= x - \frac{17}{28}y \\ (-17, -17) \end{aligned}$$

$$270) \begin{aligned} \frac{112}{3} + \frac{8}{3}y &= x \\ -y &= -18 - \frac{35}{8}x \\ (-8, -17) \end{aligned}$$

$$272) \begin{aligned} -14 &= 3x - y \\ 4x + 14 &= -y \\ (-4, 2) \end{aligned}$$

$$274) \begin{aligned} -144 - 8y &= 15x \\ 0 &= y - 12 \\ (-16, 12) \end{aligned}$$

$$276) \begin{aligned} -20x &= 77 + 7y \\ -y &= -10 - \frac{1}{7}x \\ (-7, 9) \end{aligned}$$

$$278) \begin{aligned} 20 + 2y + 2x &= 0 \\ 210 - 21y &= 81x \\ (7, -17) \end{aligned}$$

$$280) \begin{aligned} -7y &= -133 + 29x \\ -21y &= 294 - 12x \\ (7, -10) \end{aligned}$$

$$282) \begin{aligned} -x &= \frac{1}{12}y - \frac{1}{4} \\ 0 &= 2x + 17 - y \\ (-1, 15) \end{aligned}$$

$$284) \begin{aligned} 5x + 36 &= 9y \\ -27 - 9y &= 2x \\ (-9, -1) \end{aligned}$$

$$286) \begin{aligned} 2y - 32 - 8x &= 0 \\ 0 &= y + 3x - 9 \\ (-1, 12) \end{aligned}$$

$$288) \begin{aligned} -2x + 7y - 35 &= 0 \\ 0 &= -84 - 14y + 15x \\ (14, 9) \end{aligned}$$

$$290) \begin{aligned} 0 &= 15x + 17y - 17 \\ 17y &= 255 - x \\ (-17, 16) \end{aligned}$$

$$292) \begin{aligned} -y - 4x &= -10 \\ 2y &= -28 \\ (6, -14) \end{aligned}$$

$$293) \begin{aligned} 0 &= 15 + 3y + x \\ 0 &= 5 - y - 2x \\ (6, -7) \end{aligned}$$

$$295) \begin{aligned} 18 - y - x &= 0 \\ -51x + 6 &= 3y \\ (-1, 19) \end{aligned}$$

$$297) \begin{aligned} 126 &= -10x - 9y \\ 117 - 9y + 17x &= 0 \\ (-9, -4) \end{aligned}$$

$$299) \begin{aligned} -144 &= -9y + 13x \\ -1 - \frac{2}{15}x &= \frac{1}{15}y \\ (-9, 3) \end{aligned}$$

$$301) \begin{aligned} 2y - x &= 6 \\ 0 &= -4 + 4x - y \\ (2, 4) \end{aligned}$$

$$303) \begin{aligned} -10x - 6y + 24 &= 0 \\ 6 &= x - 3y \\ (3, -1) \end{aligned}$$

$$305) \begin{aligned} 2x &= -3 + y \\ 6x + 3y &= -3 \\ (-1, 1) \end{aligned}$$

$$307) \begin{aligned} 6y - 2x &= -12 \\ -27 &= -9y - 12x \\ (3, -1) \end{aligned}$$

$$309) \begin{aligned} -2 + x - y &= 0 \\ -3y + 6 &= -15x \\ (-1, -3) \end{aligned}$$

$$311) \begin{aligned} x + 4y &= 8 \\ 0 &= 2x + 8 \\ (-4, 3) \end{aligned}$$

$$313) \begin{aligned} 4 &= x \\ 0 &= 5x - 4 - 4y \\ (4, 4) \end{aligned}$$

$$315) \begin{aligned} -8 &= -x - 2y \\ 12y &= -36 + 15x \\ (4, 2) \end{aligned}$$

$$317) \begin{aligned} 3y - 2x &= 3 \\ y &= -x - 4 \\ (-3, -1) \end{aligned}$$

$$319) \begin{aligned} 4 + 7x + y &= 0 \\ 0 &= -3y - 3x + 6 \\ (-1, 3) \end{aligned}$$

$$294) \begin{aligned} 25x &= -255 + 17y \\ -2x - \frac{34}{3}y &= \frac{442}{3} \\ (-17, -10) \end{aligned}$$

$$296) \begin{aligned} 3y &= -45 + 7x \\ 4x - 21 + 3y &= 0 \\ (6, -1) \end{aligned}$$

$$298) \begin{aligned} 10y + 23x + 140 &= 0 \\ 8 &= 2y + x \\ (-10, 9) \end{aligned}$$

$$300) \begin{aligned} 0 &= 14y + 3x - 126 \\ -1 &= -y + \frac{5}{14}x \\ (14, 6) \end{aligned}$$

$$302) \begin{aligned} 0 &= -4 + 4y + 3x \\ 0 &= -2x + 24 + 8y \\ (4, -2) \end{aligned}$$

$$304) \begin{aligned} -x &= 3 - y \\ -y + 8x &= 4 \\ (1, 4) \end{aligned}$$

$$306) \begin{aligned} \frac{4}{3} + \frac{1}{3}y &= -x \\ -6 + 6y + 3x &= 0 \\ (-2, 2) \end{aligned}$$

$$308) \begin{aligned} -6x + 9 &= 9y \\ 6y + 14x &= -24 \\ (-3, 3) \end{aligned}$$

$$310) \begin{aligned} x + \frac{4}{3} - \frac{2}{3}y &= 0 \\ 4 + 2y &= x \\ (-4, -4) \end{aligned}$$

$$312) \begin{aligned} y &= -x - 3 \\ -y &= -2 - 4x \\ (-1, -2) \end{aligned}$$

$$314) \begin{aligned} -8 - 3x &= 2y \\ 3x - 2y &= -4 \\ (-2, -1) \end{aligned}$$

$$316) \begin{aligned} 3x - \frac{9}{2} &= -\frac{3}{2}y \\ -8 + 10x - 2y &= 0 \\ (1, 1) \end{aligned}$$

$$318) \begin{aligned} 9 - 3y - x &= 0 \\ -y &= -x + 1 \\ (3, 2) \end{aligned}$$

$$320) \begin{aligned} -4 &= y \\ -6x &= 3y + 6 \\ (1, -4) \end{aligned}$$

$$321) \frac{1}{12}x = -1 - \frac{1}{3}y$$

$$2y - 4 = -3x$$

$$(4, -4)$$

$$323) 3x - 6 + 3y = 0$$

$$-x - 4 = -y$$

$$(-1, 3)$$

$$325) 4x = -y - 4$$

$$2x = -4y + 12$$

$$(-2, 4)$$

$$327) 0 = 8 - 4y - x$$

$$-3x + 8 = -4y$$

$$(4, 1)$$

$$329) 3 = x - \frac{3}{2}y$$

$$-3y = -9 - 7x$$

$$(-3, -4)$$

$$331) 4 + y = -x$$

$$0 = -2 + y - 5x$$

$$(-1, -3)$$

$$333) 1 - y + \frac{2}{3}x = 0$$

$$-3y = x - 12$$

$$(3, 3)$$

$$335) 3y = 12 + 9x$$

$$y + 1 + 2x = 0$$

$$(-1, 1)$$

$$337) -4 - 2y = 4x$$

$$x = -4 + y$$

$$(-2, 2)$$

$$339) 3 + y = -x$$

$$-2 + y = -6x$$

$$(1, -4)$$

$$341) x = 1 - y$$

$$-4y + x = 16$$

$$(4, -3)$$

$$343) -21x - 12y = 48$$

$$4 + x = 0$$

$$(-4, 3)$$

$$345) -1 - \frac{1}{4}y + \frac{1}{2}x = 0$$

$$-3y + x = -3$$

$$(3, 2)$$

$$347) 36 - 21x = -12y$$

$$24 + 2x = 8y$$

$$(4, 4)$$

$$322) 3y + 2x = -3$$

$$7x + 3y = 12$$

$$(3, -3)$$

$$324) 0 = -2y + 6 - 5x$$

$$-x + 2y = -6$$

$$(2, -2)$$

$$326) -4 = -2x + y$$

$$2y + 10x - 6 = 0$$

$$(1, -2)$$

$$328) -4 - x = -4y$$

$$2x = \frac{4}{3}y + \frac{16}{3}$$

$$(4, 2)$$

$$330) -y + 3 - 4x = 0$$

$$0 = 2x - 3 - y$$

$$(1, -1)$$

$$332) 2y - 6 = 3x$$

$$-4y - 8 = -x$$

$$(-4, -3)$$

$$334) -y = -3$$

$$-2x + y + 1 = 0$$

$$(2, 3)$$

$$336) 4 + 3x = 4y$$

$$-36 - 3x = 12y$$

$$(-4, -2)$$

$$338) 2y + 3x = 8$$

$$-4 = x + 4y$$

$$(4, -2)$$

$$340) 4 - x = 4y$$

$$-2y = -x - 8$$

$$(-4, 2)$$

$$342) -3 + 3y = -2x$$

$$-3y = 12 - 3x$$

$$(3, -1)$$

$$344) 4x = 2y + 2$$

$$0 = -2 + x + y$$

$$(1, 1)$$

$$346) -3y - 9 - 3x = 0$$

$$-1 + \frac{1}{3}y - \frac{5}{3}x = 0$$

$$(-1, -2)$$

$$348) -y - 2 = -4x$$

$$-1 = y - 4x$$

$$\text{No solution}$$

349) $5x - 2y = -6$

$-y - 4 = x$

$(-2, -2)$

351) $-x + 4 = -y$

$3 + y = 0$

$(1, -3)$

353) $-2x = -4 + y$

$0 = -x + \frac{2}{3} + \frac{1}{6}y$

$(1, 2)$

355) $12 + 6y = -3x$

$-1 = -\frac{7}{8}x - \frac{1}{4}y$

$(2, -3)$

357) $-5x - 2y = 2$

$2y - 6 + x = 0$

$(-2, 4)$

359) $y = -1 - x$

$-15x + 9 = 3y$

$(1, -2)$

361) $3y - x = -6$

$2x - y = -3$

$(-3, -3)$

363) $y = -x - 4$

$0 = 2x + 3 - 3y$

$(-3, -1)$

365) $-3y + 12 = x$

$x - \frac{6}{5} = \frac{3}{5}y$

$(3, 3)$

367) $3x - 3y = -9$

$x = -y - 1$

$(-2, 1)$

369) $-1 + \frac{5}{2}x = y$

$x + 6 = 2y$

$(2, 4)$

371) $x = 2 - y$

$8 + 2y = 2x$

$(3, -1)$

373) $-x = 9 - 3y$

$-x - 1 = y$

$(-3, 2)$

375) $y + 2 = x$

$-y = x + 4$

$(-1, -3)$

350) $9 = -x - 3y$

$5x + 3y = 3$

$(3, -4)$

352) $-y + x = -4$

$x = -\frac{1}{4}y - \frac{1}{4}$

$(-1, 3)$

354) $-y - 4 = -x$

$-6 + 3y = -15x$

$(1, -3)$

356) $-3 = y + x$

$4y = 3x + 16$

$(-4, 1)$

358) $16 - 3x = 4y$

$0 = -3x - 4y - 8$

No solution

360) $0 = y - 1 - 2x$

$-2x - y = 3$

$(-1, -1)$

362) $2y = x - 6$

$0 = -2 - x$

$(-2, -4)$

364) $x - y = 1$

$-9 = -x - 3y$

$(3, 2)$

366) $-\frac{4}{5}y = -x - \frac{8}{5}$

$-x - 4y = 16$

$(-4, -3)$

368) $8 + 2x = -8y$

$4y = -x + 16$

No solution

370) $0 = -x - 4 + 2y$

$2y + 6 - x = 0$

No solution

372) $y + 3 + x = 0$

$-5x - y + 1 = 0$

$(1, -4)$

374) $-y = 2x - 4$

$2x + 8y = -24$

$(4, -4)$

376) $-3 - 3y = -3x$

$2y + 3x = 8$

$(2, 1)$

$$377) \begin{aligned} -x &= y + 1 \\ -1 - \frac{1}{16}x &= -\frac{1}{4}y \end{aligned}$$

(-4, 3)

$$379) \begin{aligned} 2x &= -y + 2 \\ -2x &= 6y + 18 \end{aligned}$$

(3, -4)

$$381) \begin{aligned} 3 &= -2x + y \\ 2y &= -8 - 3x \end{aligned}$$

(-2, -1)

$$383) \begin{aligned} -y + 5x &= 3 \\ -y + 3 - x &= 0 \end{aligned}$$

(1, 2)

$$385) \begin{aligned} -6 &= 2y - 2x \\ 7x &= -3 + y \end{aligned}$$

(-1, -4)

$$387) \begin{aligned} -8 &= 2x - 2y \\ 4x - 2 &= -2y \end{aligned}$$

(-1, 3)

$$389) \begin{aligned} 3x - 6 - 3y &= 0 \\ 4 + 4x &= y \end{aligned}$$

(-2, -4)

$$391) \begin{aligned} x - 4y + 8 &= 0 \\ 0 &= 2y + 2 + x \end{aligned}$$

(-4, 1)

$$393) \begin{aligned} -15x + 12y &= 24 \\ 0 &= -5x - 16 + 4y \end{aligned}$$

No solution

$$395) \begin{aligned} 6 &= -x + 3y \\ 3 - 4x &= -3y \end{aligned}$$

(3, 3)

$$397) \begin{aligned} -x - 3 &= -y \\ -x - 4y &= 8 \end{aligned}$$

(-4, -1)

$$399) \begin{aligned} -16 &= -4y + 7x \\ 0 &= x - 2y - 2 \end{aligned}$$

(-4, -3)

$$401) \begin{aligned} -4x &= 9y - 63 \\ -9y &= -11x + 72 \end{aligned}$$

(9, 3)

$$403) \begin{aligned} -y + 7x &= -1 \\ x &= -7 - y \end{aligned}$$

(-1, -6)

$$378) \begin{aligned} 3x + 1 &= y \\ -3x + y &= -1 \end{aligned}$$

No solution

$$380) \begin{aligned} 3 - 2x - y &= 0 \\ 0 &= -2 - y + 3x \end{aligned}$$

(1, 1)

$$382) \begin{aligned} 12x - 2y &= -6 \\ -3y &= -9 - 18x \end{aligned}$$

Infinite number of solutions

$$384) \begin{aligned} 4 &= -2y + 3x \\ -x &= -2y + 4 \end{aligned}$$

(4, 4)

$$386) \begin{aligned} 0 &= 5x - 4 + 2y \\ 2y &= -8 + x \end{aligned}$$

(2, -3)

$$388) \begin{aligned} 3x - 1 &= -y \\ 0 &= -4 - 3x - y \end{aligned}$$

No solution

$$390) \begin{aligned} 9 - 3y &= 3x \\ -y - 8x &= 4 \end{aligned}$$

(-1, 4)

$$392) \begin{aligned} 8 + 3x &= -2y \\ 2x + 8 &= -4y \end{aligned}$$

(-2, -1)

$$394) \begin{aligned} -4 - \frac{8}{3}x &= -y \\ 0 &= -2x + 3y + 6 \end{aligned}$$

(-3, -4)

$$396) \begin{aligned} 0 &= -3y + 12 - \frac{3}{2}x \\ 0 &= 4 - 3x + 4y \end{aligned}$$

(4, 2)

$$398) \begin{aligned} 0 &= -8x + 2y + 8 \\ 2 &= -x + y \end{aligned}$$

(2, 4)

$$400) \begin{aligned} -8 &= 3x - 2y \\ -8 &= 2y + x \end{aligned}$$

(-4, -2)

$$402) \begin{aligned} -3y &= 3 - 7x \\ 0 &= 2x - 24 + 3y \end{aligned}$$

(3, 6)

$$404) \begin{aligned} y + 8 &= -\frac{1}{5}x \\ 0 &= -15 - 6x - 5y \end{aligned}$$

(5, -9)

405) $-3y - x = 15$

$$8 - y = -\frac{11}{6}x$$

$$(-6, -3)$$

407) $0 = -9x - 40 - 5y$
 $-15y + 21x = -120$

$$(-5, 1)$$

409) $4y - 32 = -17x$
 $32 + 4y = -x$

$$(4, -9)$$

411) $-y - \frac{1}{3}x = 1$

$$7x + 36 = -6y$$

$$(-6, 1)$$

413) $7x - 8y = 24$
 $24 + x = 8y$

$$(8, 4)$$

415) $y + 9 = -2x$
 $-26x - 32 + 4y = 0$

$$(-2, -5)$$

417) $3y + \frac{3}{2}x = 27$

$$18 + 2y - 17x = 0$$

$$(2, 8)$$

419) $3x = -42 + 6y$
 $3y + 12 = 18x$

$$(2, 8)$$

421) $6 = 2y - 7x$
 $2y = x - 6$

$$(-2, -4)$$

423) $4 - 4y = -x$
 $x = -2y - 10$

$$(-8, -1)$$

425) $-7y - 28 + 10x = 0$
 $21y - 168 + 6x = 0$

$$(7, 6)$$

427) $7 + \frac{11}{3}x = y$

$$x = 3y + 9$$

$$(-3, -4)$$

429) $-18 = -2y$
 $y - 17x + 8 = 0$

$$(1, 9)$$

406) $0 = -18 - 15x + 9y$

$$3 = x$$

$$(3, 7)$$

408) $-5x + 24 = -4y$
 $0 = -2y + 16 - x$

$$(8, 4)$$

410) $3y = 6x - 9$
 $0 = -y - 2x - 7$

$$(-1, -5)$$

412) $-7y = 7 - x$
 $3x + 7y = -35$

$$(-7, -2)$$

414) $4 + 4y = -7x$
 $0 = 4 - x$

$$(4, -8)$$

416) $-9x - 24 = -24y$
 $0 = 2y + 12 + x$

$$(-8, -2)$$

418) $2 = -x - 2y$

$$\frac{5}{6}x = y - 7$$

$$(-6, 2)$$

420) $x = -21 - 3y$
 $9y + 27 = -15x$

$$(3, -8)$$

422) $3x - \frac{21}{4}y + \frac{21}{4} = 0$

$$-\frac{4}{63}x = -1 + \frac{1}{9}y$$

$$(7, 5)$$

424) $-14 = 4x + 7y$
 $-49 = -7y + 5x$

$$(-7, 2)$$

426) $0 = -2x + 6$
 $-y = x + 4$

$$(3, -7)$$

428) $3x = -21y - 168$
 $-6x - 21 = 7y$

$$(7, -9)$$

430) $4x = -7 - 7y$
 $-14y = -70 - 4x$

$$(-7, 3)$$

431) $-11x = -30 - 6y$

$-18 = -2y - x$

$(6, 6)$

433) $-4y = -24 - 9x$

$0 = -3x - 24 - 4y$

$(-4, -3)$

435) $0 = -2 - x - 2y$

$18 + 3x + 2y = 0$

$(-8, 3)$

437) $-y = 6$

$y = 2 - 8x$

$(1, -6)$

439) $-y = x + 6$

$-x - 4y = 12$

$(-4, -2)$

441) $-6 + x = 3y$

$-81 + 8x = -9y$

$(9, 1)$

443) $4x - 4 = y$

$y = x - 7$

$(-1, -8)$

445) $-4x - 5y = 30$

$-2 - y = 0$

$(-5, -2)$

447) $-x + 3y = 24$

$-9y = 72 + 13x$

$(-9, 5)$

449) $2x + 2y = -18$

$-3y + 15 = -39x$

$(-1, -8)$

451) $-7x = 30 - 5y$

$-25 - 4x = 5y$

$(-5, -1)$

453) $8y - 11x = -72$

$x = -2y + 12$

$(8, 2)$

455) $9y = -45 - x$

$24 + 4x - 3y = 0$

$(-9, -4)$

432) $9 = y$

$0 = y - 8 - x$

$(1, 9)$

434) $2y = -10 - x$

$2y - 18 = -15x$

$(2, -6)$

436) $27 - x - 3y = 0$

$13x = 6y + 36$

$(6, 7)$

438) $0 = -y - 2 + \frac{7}{4}x$

$x - 4y = 32$

$(-4, -9)$

440) $-30 - 5y = -13x$

$5y - 3x = 20$

$(5, 7)$

442) $-4y = -8 + x$

$x = -y - 4$

$(-8, 4)$

444) $9y = -42x + 45$

$-1 - \frac{1}{8}y = \frac{1}{24}x$

$(3, -9)$

446) $9y = -81 + 10x$

$x = 6 + 3y$

$(9, 1)$

448) $-8 - 2x - 2y = 0$

$0 = x - \frac{8}{3} - \frac{1}{3}y$

$(1, -5)$

450) $0 = -7x + 12 + 2y$

$\frac{3}{5}y - \frac{9}{20}x = 3$

$(4, 8)$

452) $2y - x = -2$

$\frac{1}{9}y = -1 - \frac{1}{18}x$

$(-8, -5)$

454) $3y = 24 + x$

$6x + 9 = -9y$

$(-9, 5)$

456) $x + 7 = -y$

$0 = 1 + y$

$(-6, -1)$

$$457) \begin{aligned} 0 &= -9 - x - y \\ -\frac{13}{4}x &= 3 - \frac{1}{2}y \end{aligned}$$

(-2, -7)

$$459) \begin{aligned} -y + 2x &= -1 \\ 8y &= 64 + 2x \end{aligned}$$

(4, 9)

$$461) \begin{aligned} -\frac{8}{9}x + \frac{1}{9}y &= 1 \\ -2y - 12 &= -x \end{aligned}$$

(-2, -7)

$$463) \begin{aligned} -6x - 7y &= -63 \\ 0 &= y - 3 \end{aligned}$$

(7, 3)

$$465) \begin{aligned} -3x &= -3y + 15 \\ x - \frac{1}{10}y - \frac{2}{5} &= 0 \end{aligned}$$

(1, 6)

$$467) \begin{aligned} 12x - 9 - 3y &= 0 \\ 24 &= 3y - x \end{aligned}$$

(3, 9)

$$469) \begin{aligned} -10x &= 6y - 48 \\ x &= -54 - 9y \end{aligned}$$

(9, -7)

$$471) \begin{aligned} 24 &= 2x + 3y \\ 6 - 3y &= 2x \end{aligned}$$

No solution

$$473) \begin{aligned} 3y + 4x + 27 &= 0 \\ 0 &= 9y - 42x - 81 \end{aligned}$$

(-3, -5)

$$475) \begin{aligned} -\frac{1}{12}x + \frac{1}{3}y &= 1 \\ 24y + 96 &= -15x \end{aligned}$$

(-8, 1)

$$477) \begin{aligned} -2x + 8 &= -y \\ 30 &= x + 6y \end{aligned}$$

(6, 4)

$$479) \begin{aligned} -2y + 10 &= -5x \\ x + 4y + 24 &= 0 \end{aligned}$$

(-4, -5)

$$481) \begin{aligned} -18 &= 2y - x \\ y &= -7x + 6 \end{aligned}$$

(2, -8)

$$458) \begin{aligned} 8y + 6x &= 72 \\ -8y + 9x &= 48 \end{aligned}$$

(8, 3)

$$460) \begin{aligned} -27 &= -3y - x \\ -x - 3y &= 3 \end{aligned}$$

No solution

$$462) \begin{aligned} -y &= 1 - 2x \\ 18 &= -2y - 12x \end{aligned}$$

(-1, -3)

$$464) \begin{aligned} -y - 5 &= x \\ 3y - 21 &= -39x \end{aligned}$$

(1, -6)

$$466) \begin{aligned} -y + 4x + 6 &= 0 \\ 0 &= -2x + 3y + 12 \end{aligned}$$

(-3, -6)

$$468) \begin{aligned} 16 &= -3x + \frac{8}{3}y \\ 0 &= -4y - 20 - x \end{aligned}$$

(-8, -3)

$$470) \begin{aligned} -x - \frac{21}{2} - \frac{3}{2}y &= 0 \\ 3 - 10x &= 3y \end{aligned}$$

(3, -9)

$$472) \begin{aligned} 6 &= y - x \\ 12x &= y + 5 \end{aligned}$$

(1, 7)

$$474) \begin{aligned} 2x &= -18 \\ -9y - 27 - x &= 0 \end{aligned}$$

(-9, -2)

$$476) \begin{aligned} 2x + 6 &= y \\ 3x - 27 &= -3y \end{aligned}$$

(1, 8)

$$478) \begin{aligned} -7x - 9y &= -45 \\ \frac{7}{9}x &= 3 - y \end{aligned}$$

No solution

$$480) \begin{aligned} 48 &= 16y - 2x \\ 0 &= -24 - 8y + x \end{aligned}$$

No solution

$$482) \begin{aligned} -5x - 2y &= 8 \\ -y &= 8 + \frac{1}{2}x \end{aligned}$$

(2, -9)

$$483) \begin{aligned} -35 + 12x &= 5y \\ 5y &= 2x + 15 \end{aligned}$$

(5, 5)

$$485) \begin{aligned} -15 &= x - 3y \\ 12 - 4x &= -3y \end{aligned}$$

(9, 8)

$$487) \begin{aligned} -8x &= y - 1 \\ y - 8 &= -x \end{aligned}$$

(-1, 9)

$$489) \begin{aligned} 7x - 5 - 5y &= 0 \\ 25 - 5y &= -x \end{aligned}$$

(5, 6)

$$491) \begin{aligned} 4 - 2y &= 18x \\ -9x + 2 &= y \end{aligned}$$

Infinite number of solutions

$$493) \begin{aligned} -2x &= 9y - 9 \\ -11x - 72 - 9y &= 0 \end{aligned}$$

(-9, 3)

$$495) \begin{aligned} -y - 16x - 7 &= 0 \\ -8 + y + x &= 0 \end{aligned}$$

(-1, 9)

$$497) \begin{aligned} -108 &= 12y - 34x \\ 4 &= y - \frac{2}{3}x \end{aligned}$$

(6, 8)

$$499) \begin{aligned} 2x - 6 &= 6y \\ 0 &= -2x + \frac{3}{2}y - \frac{15}{2} \end{aligned}$$

(-6, -3)

$$501) \begin{aligned} \frac{1}{14}x &= -1 + \frac{1}{14}y \\ 4 + 2y &= 18x \end{aligned}$$

(2, 16)

$$503) \begin{aligned} 119 + 7y &= -2x \\ 147 &= -21y + 9x \end{aligned}$$

(-14, -13)

$$505) \begin{aligned} -6 &= -4x - 3y \\ 0 &= -6x + 324 + 27y \end{aligned}$$

(9, -10)

$$507) \begin{aligned} 4x + 105 &= -7y \\ 6 - \frac{1}{14}x &= -y \end{aligned}$$

(-14, -7)

$$484) \begin{aligned} -4 - 2y + x &= 0 \\ 3x &= -8 + y \end{aligned}$$

(-4, -4)

$$486) \begin{aligned} 2x + 24 &= 3y \\ 7 + x + y &= 0 \end{aligned}$$

(-9, 2)

$$488) \begin{aligned} -x &= y + 7 \\ 7x &= -1 - y \end{aligned}$$

(1, -8)

$$490) \begin{aligned} 0 &= 3x + \frac{27}{5}y - \frac{108}{5} \\ 0 &= 9 + y - \frac{8}{9}x \end{aligned}$$

(9, -1)

$$492) \begin{aligned} 3x &= 5 + 5y \\ 0 &= -3x + 5y - 25 \end{aligned}$$

No solution

$$494) \begin{aligned} 0 &= 4y - 7x + 4 \\ -4y &= -x - 20 \end{aligned}$$

(4, 6)

$$496) \begin{aligned} x &= -14 - 2y \\ -3x + 30 &= -6y \end{aligned}$$

(-2, -6)

$$498) \begin{aligned} \frac{9}{5}x &= y + 1 \\ 0 &= 35 - 5y - x \end{aligned}$$

(-5, 8)

$$500) \begin{aligned} -27 - 27y &= -12x \\ -9y - 5x &= -72 \end{aligned}$$

(9, 3)

$$502) \begin{aligned} -4 &= -21x - y \\ -2y &= -24 + 42x \end{aligned}$$

No solution

$$504) \begin{aligned} -24 + 2y + x &= 0 \\ 0 &= x + \frac{14}{25}y + \frac{84}{25} \end{aligned}$$

(-14, 19)

$$506) \begin{aligned} -\frac{342}{11} - \frac{19}{11}y &= -x \\ -19y - x &= 114 \end{aligned}$$

(19, -7)

$$508) \begin{aligned} -8x + 18y &= -144 \\ -1 + \frac{1}{3}x &= -\frac{1}{2}y \end{aligned}$$

(9, -4)

$$509) -6y - 108 = -14x$$

$$-y = -8 + \frac{5}{9}x$$

(9, 3)

$$511) 7y + 22x + 63 = 0$$

$$-x + \frac{77}{2} - \frac{7}{2}y = 0$$

(-7, 13)

$$513) -30x + 11 = -y$$

$$-y - 11 + 30x = 0$$

Infinite number of solutions

$$515) -323 = -3x - 17y$$

$$13x - 17y = -51$$

(17, 16)

$$517) -2 - y = -\frac{8}{15}x$$

$$-29x + 15y = 285$$

(-15, -10)

$$519) 3y + 26x = -54$$

$$-13 - \frac{5}{3}x = -y$$

(-3, 8)

$$521) 0 = -165 - 15y - 8x$$

$$210 = 15y - 17x$$

(-15, -3)

$$523) 1 + \frac{1}{5}y = \frac{9}{20}x$$

$$-x + 4y - 44 = 0$$

(8, 13)

$$525) 11x = 136 - 8y$$

$$1 - \frac{3}{8}x = -\frac{1}{3}y$$

(8, 6)

$$527) -16y + 224 - 27x = 0$$

$$3x = -8y - 56$$

(16, -13)

$$529) y + 7 = 0$$

$$0 = 128 - 16y + 15x$$

(-16, -7)

$$531) -x + 6y + 102 = 0$$

$$24 + 4x = -3y$$

(6, -16)

$$533) 8y = -144 + 21x$$

$$8y = 16 + x$$

(8, 3)

$$510) -14 = -4x - 7y$$

$$7y = -16x - 70$$

(-7, 6)

$$512) -\frac{10}{323}x = -1 + \frac{1}{19}y$$

$$9 - y = 0$$

(17, 9)

$$514) x + 12 = -y$$

$$3y = -42 + 3x$$

(1, -13)

$$516) 27x + 16y = 160$$

$$16y + 160 = -7x$$

(16, -17)

$$518) -x + y + 8 = 0$$

$$-7 + y = -14x$$

(1, -7)

$$520) 210 = -17x - 15y$$

$$-5y = -45 - 2x$$

(-15, 3)

$$522) 14y - 10x - 210 = 0$$

$$105 + 25x = -7y$$

(-7, 10)

$$524) x = -8y + 120$$

$$8y + 17x = -8$$

(-8, 16)

$$526) -120 - 8y = -17x$$

$$-x = -16y + 288$$

(16, 19)

$$528) -19y + 3x - 361 = 0$$

$$-x = \frac{19}{33}y - \frac{323}{33}$$

(19, -16)

$$530) 0 = -30 + x - 6y$$

$$y = 9 - x$$

(12, -3)

$$532) -16y = -9x + 304$$

$$0 = 1 - \frac{1}{15}y + \frac{3}{80}x$$

No solution

534) $-y - x = 10$

$$0 = -3 + \frac{1}{2}y$$

$$(-16, 6)$$

536) $y = 9 + x$

$x + 9 - y = 0$

Infinite number of solutions

538) $0 = 270 - 15y - 34x$

$15y = -225 - x$

$$(15, -16)$$

540) $-30y - 330 = -2x$

$-585 = -69x - 45y$

$$(15, -10)$$

542) $16x = -15y + 225$

$16x + 15y = 150$

No solution

544) $2y = 14$

$1 = 6x + y$

$$(-1, 7)$$

546) $0 = 1 + \frac{1}{6}y$

$-2y - 34 = 22x$

$$(-1, -6)$$

548) $-\frac{85}{11} = -x - \frac{17}{11}y$

$-x - 17 = 0$

$$(-17, 16)$$

550) $70 + 9x = -7y$

$7y = -126 - x$

$$(7, -19)$$

552) $3x - 57 = 3y$

$$\frac{1}{19}x - \frac{1}{19}y = 1$$

Infinite number of solutions

554) $-2x = 4$

$2y + x = 6$

$$(-2, 4)$$

556) $0 = -4x + 14y - 224$

$$10 + \frac{24}{7}x = -y$$

$$(-7, 14)$$

535) $7y = 77 - x$

$6x - 112 = -7y$

$$(7, 10)$$

537) $-9y = -162 - 31x$

$-7x = -54 - 9y$

$$(-9, -13)$$

539) $-27x = 64 - 8y$

$4y - 3x = -52$

$$(-8, -19)$$

541) $x - \frac{2}{3} + \frac{2}{3}y = 0$

$$1 = \frac{1}{13}y$$

$$(-8, 13)$$

543) $-18 + \frac{7}{5}x = -y$

$15y = 7x - 150$

$$(15, -3)$$

545) $x + \frac{16}{7}y + \frac{64}{7} = 0$

$16y - 13x = 256$

$$(-16, 3)$$

547) $-\frac{1}{7}y - \frac{3}{119}x = -1$

$17y - 289 = 7x$

$$(-17, 10)$$

549) $x = -\frac{77}{2} + \frac{7}{2}y$

$-7y = 14 - 15x$

$$(7, 13)$$

551) $0 = 14x - 18 - 9y$

$-3y = 39 - x$

$$(-9, -16)$$

553) $0 = -9y - 63 + 2x$

$126 - 9y = -23x$

$$(-9, -9)$$

555) $1 = \frac{1}{12}y + \frac{3}{28}x$

$6 = -y$

$$(14, -6)$$

557) $0 = -5x - 72 - 9y$

$$x = \frac{9}{11}y - \frac{72}{11}$$

$$(-9, -3)$$

558) $-x - \frac{1}{6}y = \frac{1}{3}$

$2 + y = -6x$

Infinite number of solutions

560) $9x = 224 - 14y$

$16 = -y + \frac{23}{14}x$

(14, 7)

562) $0 = -180 - 23x + 18y$

$x = 216 + 18y$

(-18, -13)

564) $-33 + x - 3y = 0$

$-23x + 84 = 6y$

(6, -9)

566) $-21x = 5y - 90$

$\frac{21}{5}x = -y + 18$

Infinite number of solutions

568) $0 = -96 + x - 6y$

$-36 = 18y - 17x$

(-18, -19)

570) $12x = -5y - 85$

$-10y - 3x = -40$

(-10, 7)

572) $0 = -29x + 13y + 247$

$-1 + \frac{1}{18}y = -\frac{4}{117}x$

(13, 10)

574) $22x - 180 = 36y$

$-33x = -270 - 54y$

Infinite number of solutions

576) $-3y + 34x = -45$

$x + \frac{39}{34} = \frac{3}{34}y$

No solution

578) $-45 - x - 3y = 0$

$-8x = 63 - 9y$

(-18, -9)

580) $0 = 160 + 10y - 46x$

$-160 + 46x = 10y$

Infinite number of solutions

582) $0 = -5y + 7x - 30$

$0 = -1 + \frac{1}{9}y + \frac{8}{45}x$

(5, 1)

559) $-x = \frac{306}{31} + \frac{17}{31}y$

$-306 - 17y - 31x = 0$

Infinite number of solutions

561) $-1 + 8x + y = 0$

$17 - y = 0$

(-2, 17)

563) $14x = -3y + 36$

$0 = -6y - 5x - 66$

(6, -16)

565) $10 + 4x = 5y$

$y + x = -16$

(-10, -6)

567) $6x + 40 = -20y$

$10y - 80 = 7x$

(-10, 1)

569) $5x = -13y + 117$

$-1 + \frac{2}{13}x = \frac{1}{4}y$

(13, 4)

571) $-12x = -9y + 162$

$3y = -28x - 42$

(-3, 14)

573) $-x + 13y - 208 = 0$

$143 - 28x = -13y$

(13, 17)

575) $-36 - 3y = 0$

$0 = -3y + 31x + 57$

(-3, -12)

577) $-4 = -2x - y$

$10y = -50 - 2x$

(5, -6)

579) $-19y + 17x = -266$

$-28x - 646 = 38y$

(-19, -3)

581) $8x + 132 = 11y$

$22y = -66 - 14x$

(-11, 4)

583) $6y = -108 + 16x$

$-27 = 3y - 8x$

No solution

$$584) \begin{aligned} -11y &= 15x + 44 \\ y + 4 + \frac{15}{11}x &= 0 \end{aligned}$$

Infinite number of solutions

$$586) \begin{aligned} -39 - 28x + 3y &= 0 \\ 0 &= -18 - x - y \\ (-3, -15) \end{aligned}$$

$$588) \begin{aligned} -\frac{36}{7} + \frac{4}{7}y &= -x \\ 21x &= 36y + 684 \\ (12, -12) \end{aligned}$$

$$590) \begin{aligned} 4y - 8 &= -7x \\ 0 &= x + 64 + 4y \\ (12, -19) \end{aligned}$$

$$592) \begin{aligned} 7x &= 36 + 4y \\ 3x &= 12 \\ (4, -2) \end{aligned}$$

$$594) \begin{aligned} 0 &= 12y + 19x + 144 \\ 64 &= -3x + 4y \\ (-12, 7) \end{aligned}$$

$$596) \begin{aligned} 0 &= -x - 68 + 4y \\ 4y - x &= -32 \\ \text{No solution} \end{aligned}$$

$$598) \begin{aligned} \frac{5}{9}x - \frac{1}{3}y &= 1 \\ 6y &= -x + 114 \\ (12, 17) \end{aligned}$$

$$600) \begin{aligned} 0 &= -11y - 209 + 4x \\ 11y + 4x &= -121 \\ (11, -15) \end{aligned}$$

$$585) \begin{aligned} x + \frac{11}{24}y + \frac{77}{24} &= 0 \\ -198 &= -11y - 24x \end{aligned}$$

No solution

$$587) \begin{aligned} 5x + 2y &= -38 \\ 4y - 17x - 32 &= 0 \\ (-4, -9) \end{aligned}$$

$$589) \begin{aligned} -19y + 2x &= 76 \\ 0 &= 2x - 76 - 19y \\ \text{Infinite number of solutions} \end{aligned}$$

$$591) \begin{aligned} 190 + 19y &= -11x \\ x + 38 &= 19y \\ (-19, 1) \end{aligned}$$

$$593) \begin{aligned} 8 - x &= y \\ -2y + 7x &= 20 \\ (4, 4) \end{aligned}$$

$$595) \begin{aligned} -y &= -3x + 1 \\ -3x - 4 &= -y \\ \text{No solution} \end{aligned}$$

$$597) \begin{aligned} 42 &= 6y - 13x \\ -x + \frac{6}{13}y &= \frac{42}{13} \end{aligned}$$

Infinite number of solutions

$$599) \begin{aligned} 5x &= -68 - 4y \\ \frac{17}{20}x &= -1 + \frac{1}{5}y \\ (-4, -12) \end{aligned}$$