



Graphing systems of linear equations - standard

Find both coordinates of the solution to each system by drawing graphs of the linear equations.

1) $2x - 7y = -7$
 $6x + 7y = 63$

2) $3x + y = -6$
 $2x - y = -9$

3) $8x + 3y = -21$
 $x + 2y = 12$

4) $x = -8$
 $11x + 8y = -40$

$$\begin{aligned} 5) \quad 3x + 7y &= -28 \\ 2x + y &= 7 \end{aligned}$$

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

$$\begin{aligned} 7) \quad x + 6y &= -30 \\ x + 6y &= 54 \end{aligned}$$

$$\begin{aligned} 8) \quad 13x - 4y &= -32 \\ 13x - 4y &= -28 \end{aligned}$$

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

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

$$\begin{aligned} 11) \quad 15x + 7y &= -42 \\ x + 7y &= 56 \end{aligned}$$

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

$$\begin{aligned} 13) \quad x - 6y &= 42 \\ 4x + 3y &= 6 \end{aligned}$$

$$\begin{aligned} 14) \quad 4x + 9y &= 27 \\ x &= -9 \end{aligned}$$

$$\begin{aligned} 15) \quad x - 8y &= 32 \\ x + 2y &= 2 \end{aligned}$$

$$\begin{aligned} 16) \quad 7x - 5y &= -40 \\ x + y &= -4 \end{aligned}$$

$$\begin{aligned} 17) \quad & 5x + 2y = -12 \\ & 5x - 4y = -36 \end{aligned}$$

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

$$\begin{aligned} 19) \quad & 16x + 9y = -81 \\ & 4x + 9y = 27 \end{aligned}$$

$$\begin{aligned} 20) \quad & 2x - 5y = 35 \\ & 14x + 5y = 45 \end{aligned}$$

$$\begin{aligned} 21) \quad & 5x + 8y = 24 \\ & x - 2y = 12 \end{aligned}$$

$$\begin{aligned} 22) \quad & 7x - 6y = -48 \\ & 2x + 3y = -9 \end{aligned}$$

$$\begin{aligned} 23) \quad & x - 4y = -24 \\ & 3x + 4y = 8 \end{aligned}$$

$$\begin{aligned} 24) \quad & 2x + 3y = -18 \\ & y = -8 \end{aligned}$$

$$\begin{aligned} 25) \quad & 2x + y = 5 \\ & 3x + 5y = -10 \end{aligned}$$

$$\begin{aligned} 26) \quad & x - 3y = -15 \\ & 11x - 9y = 27 \end{aligned}$$

$$\begin{aligned} 27) \quad & 8x + y = -9 \\ & x + y = -2 \end{aligned}$$

$$\begin{aligned} 28) \quad & 14x + 5y = -45 \\ & 14x + 5y = 35 \end{aligned}$$

$$\begin{aligned} 29) \quad x + 8y &= 72 \\ 2x - y &= 8 \end{aligned}$$

$$\begin{aligned} 30) \quad x - y &= -8 \\ 3x + 2y &= -14 \end{aligned}$$

Answers to Graphing systems of linear equations - standard

- | | | | |
|-------------|-----------------|----------------|-----------------|
| 1) (7, 3) | 2) (-3, 3) | 3) (-6, 9) | 4) (-8, 6) |
| 5) (7, -7) | 6) (1, -4) | 7) No solution | 8) No solution |
| 9) (-3, 3) | 10) (1, -3) | 11) (-7, 9) | 12) (4, -9) |
| 13) (6, -6) | 14) (-9, 7) | 15) (8, -3) | 16) (-5, 1) |
| 17) (-4, 4) | 18) No solution | 19) (-9, 7) | 20) (5, -5) |
| 21) (8, -2) | 22) (-6, 1) | 23) (-4, 5) | 24) (3, -8) |
| 25) (5, -5) | 26) (9, 8) | 27) (-1, -1) | 28) No solution |
| 29) (8, 8) | 30) (-6, 2) | | |