



Find each product.

$$1) \left(1\frac{1}{4}m + 2\frac{3}{4}\right)\left(5\frac{1}{10}m^2 - 7\frac{2}{5}m + 2\frac{3}{10}\right)$$

$$2) \left(1\frac{2}{3}p + 3\frac{5}{6}\right)\left(\frac{1}{2}p^2 + \frac{3}{8}p - \frac{5}{8}\right)$$

$$3) \left(1\frac{5}{9}x + \frac{3}{8}\right)\left(2x^2 + \frac{1}{2}x - \frac{3}{10}\right)$$

$$4) \left(1\frac{2}{7}n - 1\frac{5}{6}\right)\left(5\frac{1}{6}n^2 + n - 2\frac{4}{7}\right)$$

$$5) \left(3\frac{9}{10}x - 2\frac{2}{9}\right)\left(3\frac{1}{3}x^2 - x - 1\frac{3}{5}\right)$$

$$6) \left(\frac{1}{2}r - 1\frac{9}{10}\right)\left(4\frac{5}{8}r^2 + 1\frac{7}{8}r + 4\frac{1}{4}\right)$$

$$7) \left(\frac{4}{5}b + \frac{1}{2}\right)\left(\frac{1}{3}b^2 - 3\frac{5}{9}b - 1\frac{1}{2}\right)$$

$$8) \left(1\frac{7}{8}n + 8\right)\left(1\frac{3}{5}n^2 - 10n + 3\right)$$

$$9) \left(\frac{2}{7}a - 1\frac{2}{3}\right)\left(8a^2 + 1\frac{8}{9}a + 2\frac{1}{4}\right)$$

$$10) \left(1\frac{1}{5}v + 3\frac{3}{10}\right)\left(\frac{3}{4}v^2 + 8v - 2\frac{1}{6}\right)$$

$$11) \left(1\frac{1}{2}x - 3\frac{3}{7}\right)\left(4\frac{4}{5}x^2 + 1\frac{2}{5}x + 4\frac{5}{6}\right)$$

$$12) \left(4\frac{9}{10}x + 2\right)\left(2x^2 + \frac{7}{9}x - \frac{5}{7}\right)$$

13)  $\left(4\frac{3}{5}k + 1\frac{3}{8}\right)\left(\frac{1}{2}k^2 + 1\frac{2}{7}k + 2\frac{2}{3}\right)$

14)  $\left(\frac{1}{2}a - \frac{2}{3}\right)\left(\frac{1}{5}a^2 + 1\frac{3}{5}a - 2\frac{1}{5}\right)$

15)  $\left(\frac{1}{4}p - \frac{1}{7}\right)\left(\frac{1}{3}p^2 - 1\frac{7}{10}p + 1\frac{3}{4}\right)$

16)  $\left(3\frac{1}{2}x - 3\frac{7}{8}\right)\left(6x^2 - 1\frac{1}{4}x + 4\frac{1}{6}\right)$

17)  $\left(\frac{7}{9}n + 2\frac{1}{6}\right)\left(1\frac{2}{7}n^2 + 3\frac{9}{10}n - 1\frac{1}{10}\right)$

18)  $\left(\frac{5}{7}m - 1\frac{5}{8}\right)\left(\frac{5}{9}m^2 - 3\frac{1}{8}m + \frac{1}{4}\right)$

19)  $\left(\frac{2}{3}x - 2\frac{1}{4}\right)\left(4\frac{1}{4}x^2 + \frac{4}{5}x + \frac{1}{2}\right)$

20)  $\left(\frac{4}{5}r + \frac{1}{2}\right)\left(5\frac{7}{8}r^2 + \frac{9}{10}r + \frac{3}{4}\right)$

21)  $\left(\frac{3}{8}b + \frac{1}{4}\right)\left(b^2 + 2b + 1\frac{5}{8}\right)$

22)  $\left(\frac{3}{10}n - 1\right)\left(1\frac{1}{4}n^2 + 1\frac{7}{9}n - \frac{3}{4}\right)$

23)  $\left(\frac{1}{3}v - 1\frac{1}{6}\right)\left(\frac{1}{2}v^2 + 1\frac{1}{3}v + 2\frac{1}{5}\right)$

24)  $\left(5\frac{3}{4}x - 2\frac{3}{5}\right)\left(\frac{9}{10}x^2 - 3\frac{5}{6}x + 1\frac{5}{8}\right)$

$$25) \left(\frac{8}{9}a + 1\frac{3}{8}\right)\left(\frac{5}{6}a^2 + \frac{1}{2}a - 1\frac{1}{2}\right)$$

$$26) \left(\frac{1}{3}n + \frac{3}{5}\right)\left(1\frac{1}{2}n^2 + 5\frac{3}{5}n - 1\frac{4}{9}\right)$$

$$27) \left(4\frac{6}{7}k + 2\frac{1}{10}\right)\left(\frac{1}{8}k^2 + 1\frac{1}{3}k + \frac{1}{2}\right)$$

$$28) \left(1\frac{1}{6}p - 1\right)\left(\frac{5}{8}p^2 + 1\frac{1}{10}p - 1\frac{4}{5}\right)$$

$$29) \left(1\frac{1}{3}x + \frac{6}{7}\right)\left(5\frac{1}{4}x^2 + 5\frac{3}{4}x - 3\frac{1}{5}\right)$$

$$30) \left(2n + 4\frac{5}{7}\right)\left(\frac{5}{7}n^2 + 1\frac{6}{7}n - \frac{1}{4}\right)$$

$$1) 6\frac{3}{8}m^3 + 4\frac{31}{40}m^2 - 17\frac{19}{40}m + 6\frac{13}{40}$$

$$3) 3\frac{1}{9}x^3 + 1\frac{19}{36}x^2 - \frac{67}{240}x - \frac{9}{80}$$

$$5) 13x^3 - 11\frac{83}{270}x^2 - 4\frac{4}{225}x + 3\frac{5}{9}$$

$$7) \frac{4}{15}b^3 - 2\frac{61}{90}b^2 - 2\frac{44}{45}b - \frac{3}{4} \quad 8) 3n^3 - 5\frac{19}{20}n^2 - 74\frac{3}{8}n + 24$$

$$9) 2\frac{2}{7}a^3 - 12\frac{50}{63}a^2 - 2\frac{191}{378}a - 3\frac{3}{4}$$

$$11) 7\frac{1}{5}x^3 - 14\frac{5}{14}x^2 + 2\frac{9}{20}x - 16\frac{4}{7}$$

$$13) 2\frac{3}{10}k^3 + 6\frac{337}{560}k^2 + 14\frac{29}{840}k + 3\frac{2}{3}$$

$$15) \frac{1}{12}p^3 - \frac{397}{840}p^2 + \frac{381}{560}p - \frac{1}{4}$$

$$17) n^3 + 5\frac{86}{105}n^2 + 7\frac{107}{180}n - 2\frac{23}{60}$$

$$19) 2\frac{5}{6}x^3 - 9\frac{7}{240}x^2 - 1\frac{7}{15}x - 1\frac{1}{8}$$

$$21) \frac{3}{8}b^3 + b^2 + 1\frac{7}{64}b + \frac{13}{32}$$

$$22) \frac{3}{8}n^3 - \frac{43}{60}n^2 - 2\frac{1}{360}n + \frac{3}{4} \quad 23) \frac{1}{6}v^3 - \frac{5}{36}v^2 - \frac{37}{45}v - 2\frac{17}{30}$$

$$24) 5\frac{7}{40}x^3 - 24\frac{229}{600}x^2 + 19\frac{149}{480}x - 4\frac{9}{40}$$

$$26) \frac{1}{2}n^3 + 2\frac{23}{30}n^2 + 2\frac{593}{675}n - \frac{13}{15}$$

$$28) \frac{35}{48}p^3 + \frac{79}{120}p^2 - 3\frac{1}{5}p + 1\frac{4}{5}$$

$$30) 1\frac{3}{7}n^3 + 7\frac{4}{49}n^2 + 8\frac{25}{98}n - 1\frac{5}{28}$$

$$2) \frac{5}{6}p^3 + 2\frac{13}{24}p^2 + \frac{19}{48}p - 2\frac{19}{48}$$

$$4) 6\frac{9}{14}n^3 - 8\frac{47}{252}n^2 - 5\frac{41}{294}n + 4\frac{5}{7}$$

$$6) 2\frac{5}{16}r^3 - 7\frac{17}{20}r^2 - 1\frac{7}{16}r - 8\frac{3}{40}$$

$$10) \frac{9}{10}v^3 + 12\frac{3}{40}v^2 + 23\frac{4}{5}v - 7\frac{3}{20}$$

$$12) 9\frac{4}{5}x^3 + 7\frac{73}{90}x^2 - 1\frac{17}{18}x - 1\frac{3}{7}$$

$$14) \frac{1}{10}a^3 + \frac{2}{3}a^2 - 2\frac{1}{6}a + 1\frac{7}{15}$$

$$16) 21x^3 - 27\frac{5}{8}x^2 + 19\frac{41}{96}x - 16\frac{7}{48}$$

$$18) \frac{25}{63}m^3 - 3\frac{17}{126}m^2 + 5\frac{115}{448}m - \frac{13}{32}$$

$$20) 4\frac{7}{10}r^3 + 3\frac{263}{400}r^2 + 1\frac{1}{20}r + \frac{3}{8}$$

$$25) \frac{20}{27}a^3 + 1\frac{85}{144}a^2 - \frac{31}{48}a - 2\frac{1}{16}$$

$$27) \frac{17}{28}k^3 + 6\frac{1241}{1680}k^2 + 5\frac{8}{35}k + 1\frac{1}{20}$$

$$29) 7x^3 + 12\frac{1}{6}x^2 + \frac{139}{210}x - 2\frac{26}{35}$$