

Polynomial Subtraction

Solve.

1 $(2x^2 + x - 9) - (x^3 + 3x^2 + 3)$

2 $(9x^2 - 3x + 1) - (2x^2 + x - 9)$

3 $(x^2 - x - 4) - (3x^2 - 4x + 1)$

4 $(5 + 5x^3) - (1 - 3x^3 + 9x^2)$

5 $(x^2 - 7 + 3x) - (14 - x^3)$

6 $(6x^2 + 4x - 2) - (3x^2 - 2x + 7)$

7 $(-5x^3 - 2x^2 + 17) - (4x^3 + 7x^2 - 3x + 2)$

8 $(-6x^3 + 5x^2 - 3) - (2x^3 - 4x^2 - 3x + 1)$

9 $(6x^2 + 4x + 1) - (4x + 20)$

10 $(8x^3 - 6x + 16) - (x^3 + 10x - 9)$

11 $(5x^4 + 2x^3 + 3x^2 + 12) - (7x^3 + 4x^2 + 3)$

12 $(3x^2 + 4x - 1) - (2x^2 - 3x + 2)$

Polynomial Subtraction

Answers

$$1 \quad (2x^2 + x - 9) - (x^3 + 3x^2 + 3)$$

$$2 \quad (9x^2 - 3x + 1) - (2x^2 + x - 9)$$

$$3 \quad \begin{array}{r} -x^3 - x^2 + x - 12 \\ \hline (x^2 - x - 4) - (3x^2 - 4x + 1) \end{array}$$

$$4 \quad \begin{array}{r} 7x^2 - 4x + 10 \\ \hline (5 + 5x^3) - (1 - 3x^3 + 9x^2) \end{array}$$

$$5 \quad \begin{array}{r} -2x^2 + 3x - 5 \\ \hline (x^2 - 7 + 3x) - (14 - x^3) \end{array}$$

$$6 \quad \begin{array}{r} 8x^3 - 9x^2 + 4 \\ \hline (6x^2 + 4x - 2) - (3x^2 - 2x + 7) \end{array}$$

$$7 \quad \begin{array}{r} x^3 + x^2 + 3x - 21 \\ \hline (-5x^3 - 2x^2 + 17) - (4x^3 + 7x^2 - 3x + 2) \end{array}$$

$$8 \quad \begin{array}{r} 3x^2 + 6x - 9 \\ \hline (-6x^3 + 5x^2 - 3) - (2x^3 - 4x^2 - 3x + 1) \end{array}$$

$$9 \quad \begin{array}{r} -9x^3 - 9x^2 + 3x + 15 \\ \hline (6x^2 + 4x + 1) - (4x + 20) \end{array}$$

$$10 \quad \begin{array}{r} -8x^3 + 9x^2 + 3x - 4 \\ \hline (8x^3 - 6x + 16) - (x^3 + 10x - 9) \end{array}$$

$$11 \quad \begin{array}{r} 6x^2 - 19 \\ \hline (5x^4 + 2x^3 + 3x^2 + 12) - (7x^3 + 4x^2 + 3) \end{array}$$

$$12 \quad \begin{array}{r} 7x^3 - 16x + 25 \\ \hline (3x^2 + 4x - 1) - (2x^2 - 3x + 2) \end{array}$$

$$\underline{5x^4 - 5x^3 - x^2 + 9}$$

$$\underline{x^2 + 7x - 3}$$