

Perform the indicated operations.

$$1) (5y^2 + 9y - 10) + (3y^2 - 4y + 17)$$

$$\begin{array}{r} 3y^2 - 4y + 17 \\ 5y^2 + 9y - 10 \\ \hline 8y^2 + 5y + 7 \end{array}$$

$$2) 7a - 2(3a - 5) + 6 - 4a$$

$$\begin{array}{r} 7a - 6a + 10 + 6 - 4a \\ 1a - 4a + 16 \\ \hline -3a + 16 \end{array}$$

$$3) (4k^3 + 6k - 10) - (-5k + 8)$$

$$\begin{array}{r} + 5k - 8 \\ 4k^3 + 6k - 10 \\ \hline 4k^3 + 11k - 18 \end{array}$$

$$4) \text{ Subtract } (5y^2 + 3y - 7) \text{ from } 8y^2 + 4y - 19.$$

$$8y^2 + 4y - 19 - (5y^2 + 3y - 7)$$

$$\begin{array}{r} -5y^2 - 3y + 7 \\ 8y^2 + 4y - 19 \\ \hline 3y^2 + y - 12 \end{array}$$

$\frac{19}{-12} \leftarrow$

$$5) (8x^3 - 7x + 15) - (6x^3 + 10x - 7)$$

$$\begin{array}{r} -6x^3 - 10x + 7 \\ 8x^3 - 7x + 15 \\ \hline 2x^3 - 17x + 22 \end{array}$$

$$6) (-8x^7 + 6x^5 - 3x) + (3x^7 + 10x^5 - 4x - 2)$$

$$\begin{array}{r} 3x^7 + 10x^5 - 4x - 2 \\ -8x^7 + 6x^5 - 3x \\ \hline -5x^7 + 16x^5 - 7x - 2 \end{array}$$

$$7) \text{ Subtract } (3y^2 + 4y - 6) \text{ from } 7y^2 + 15y - 20.$$

$$7y^2 + 15y - 20 - (3y^2 + 4y - 6)$$

$$\begin{array}{r} -3y^2 - 4y + 6 \\ 7y^2 + 15y - 20 \\ \hline 4y^2 + 11y - 14 \end{array}$$

$$8) (a^3 + 4a - 18) - (-7a^3 - 12a + 11)$$

$$\begin{array}{r} +7a^3 + 12a - 11 \\ a^3 + 4a - 18 \\ \hline 8a^3 + 16a - 29 \end{array}$$

$$9) (15r + 8) - (3r + 2)$$

$$\begin{array}{r} -3r - 2 \\ 15r + 8 \\ \hline 12r + 6 \end{array}$$

$$10) 7 + 2k - 5(-4k + 3) - 9k$$

$$\begin{array}{r} 7 + 2k + 20k - 15 - 9k \\ 22k - 9k - 8 \\ \hline 11k - 8 \end{array}$$

$\frac{15}{-8} \leftarrow$