

Perform the indicated operations.

$$1) (y^2 + 7y - 10) - (6y^2 - 3y + 14)$$

$$\begin{array}{r} -6y^2 + 3y - 14 \\ \hline y^2 + 7y - 10 \\ \hline -5y^2 + 10y - 24 \end{array}$$

$$2) 7a - (-4a + 20) + 6 - 10a - 9$$

$$\begin{array}{r} 7a + 4a - 20 + 6 - 10a - 9 \\ \hline 11a - 10a - 14 - 9 \\ \hline a - 23 \end{array}$$

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

$$\begin{array}{r} 7k^3 + 4k^2 - k - 8 \\ - 7k^3 + 6k - 10 \\ \hline 4k^2 + 5k - 18 \end{array}$$

$$4) \text{Subtract } (-3y^2 + 5y - 7) \text{ from } 2y^3 + 8y^2 - 9.$$

$$\begin{array}{r} 2y^3 + 8y^2 - 9 - (-3y^2 + 5y - 7) \\ \quad + 3y^2 - 5y + 7 \\ \hline 2y^3 + 8y^2 - 9 \\ \hline 2y^3 + 11y^2 - 5y - 2 \end{array}$$

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

$$\begin{array}{r} + 8x^3 - x + 7 \\ \hline 3x^3 - 7x + 15 \\ \hline 11x^3 - 8x + 22 \end{array}$$

$$6) (5k^3 + 8k - 19) - (k^3 + 4k^2 + 8k + 5)$$

$$\begin{array}{r} -k^3 - 4k^2 - 8k - 5 \\ \hline 5k^3 + 8k - 19 \\ \hline 4k^3 - 4k^2 - 24 \end{array}$$

$$4k^3 - 4k^2 - 24$$

$$7) \text{Subtract } (4y^3 + 8y - 7) \text{ from } 6y^2 + 10y - 12.$$

$$\begin{array}{r} 6y^2 + 10y - 12 - (4y^3 + 8y - 7) \\ \quad - 4y^3 - 8y + 7 \\ \hline -4y^3 + 6y^2 + 2y - 5 \end{array}$$

$$8) (y^3 - 8y + 13) - (-2y^3 - 18y + 17)$$

$$\begin{array}{r} + 2y^3 + 18y - 17 \\ \hline y^3 - 8y + 13 \\ \hline 3y^3 + 10y - 4 \end{array}$$

$$9) (-12x + 9) - (5x^2 + 3x + 20)$$

$$\begin{array}{r} -5x^2 - 3x - 20 \\ - 12x + 9 \\ \hline -5x^2 - 15x - 11 \end{array}$$

$$10) (6x^4 - 8x^6 - 2x) + (3x^6 + 17x^4 - 9x - 5)$$

$$\begin{array}{r} 3x^6 + 17x^4 - 9x - 5 \\ - 8x^6 + 6x^4 - 2x \\ \hline - 5x^6 + 23x^4 - 11x - 5 \end{array}$$