

S. 72

Sievevää

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$$\begin{aligned}
 \text{a) } & (3x + 6) + (5x + 4) \\
 &= \underline{3x} + \underline{6} + \underline{5x} + \underline{4} \\
 &= \underline{8x} + \underline{10} \quad (\text{lauseke, polynomi})
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & (-4x + 6) + (3x - 8) \\
 &= \underline{-4x} + \underline{6} + \underline{3x} - \underline{8} \\
 &= \underline{-x} - \underline{2}
 \end{aligned}$$

$$\begin{array}{|l}
 1 \cdot x = x \\
 -1 \cdot x = -x \\
 0 \cdot x = 0
 \end{array}$$

$$\begin{aligned}
 \text{c) } & (10a - 9) + (-2a - 7) \\
 &= \underline{10a} - \underline{9} - \underline{2a} - \underline{7} = \underline{8a} - \underline{16}
 \end{aligned}$$

$$\begin{aligned}
 \text{d) } & (-a - 11) + (6a + 18) \\
 &= \underline{-a} - \underline{11} + \underline{6a} + \underline{18} = \underline{5a} + \underline{7}
 \end{aligned}$$

$$-1 + 6 = 5$$

$$-11 + 18 = 7$$

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$$\begin{aligned}
 \text{a) } & (-6m^3 + 4m) - (3m^3 - 5m) \\
 &= \underline{-6m^3} + \underline{4m} - \underline{3m^3} + \underline{5m} \\
 &= \underline{-9m^3} + \underline{9m}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & (9d^4 - 2d^2) - (-2d^2 + 5d) \\
 &= \underline{9d^4} - \underline{2d^2} + \underline{2d^2} - \underline{5d} \\
 &= \underline{9d^4} - \underline{5d}
 \end{aligned}$$

$$c) (5y^4 - y) - (-2y^3 + 5)$$

$$= 5y^4 - y + 2y^3 - 5$$

$$= 5y^4 + 2y^3 - y - 5$$

$$d) -(-12x^2 - 7x) - 9x$$

$$= 12x^2 + 7x - 9x$$

$$= 12x^2 - 2x$$