

Homework Review

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$$\begin{aligned}
 \underline{11a} \quad & (3x^2 + 5x) - (x^2 + 5x - 3) \\
 & = \underline{3x^2} + \textcircled{5x} - \underline{x^2} - \textcircled{5x} + \underline{3} \\
 & = 2x^2 + 3
 \end{aligned}$$

$$\begin{aligned}
 \underline{11b} \quad & (-x^2 + 7x - 9) + (x^2 - 4x + 3) \\
 & = \underline{-x^2} + \textcircled{7x} \textcircled{-9} + \underline{x^2} - \textcircled{4x} \textcircled{+3} \\
 & = 3x - 6
 \end{aligned}$$

$$\begin{aligned}
 \underline{c} \quad & (x^3 + 5x^2 - 7x) + (x^2 + 4x - 9) \\
 & = \underline{x^3} + \textcircled{+5x^2} \textcircled{-7x} + \textcircled{x^2} \textcircled{+4x} - 9 \\
 & = x^3 + 6x^2 - 3x - 9
 \end{aligned}$$

$$\begin{aligned}
 \underline{f} \quad & (x^2 - 5x + 2) - (x^2 + 4x - 9) - (x^3 - 5x^2) \\
 & = \underline{x^2} - \textcircled{5x} + \underline{2} - \textcircled{x^2} - \textcircled{4x} + \underline{9} - \textcircled{x^3} + \textcircled{5x^2} \\
 & = -x^3 + 5x^2 - 9x + 11
 \end{aligned}$$