

p. 258 simplify.

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$$\begin{aligned} 7f) & (3x^2 - 4xy + 6y^2) - (6x^2 - 8xy - 3y^2) \\ & = \underline{3x^2} - \underline{4xy} + \underline{6y^2} - \underline{6x^2} + \underline{8xy} + \underline{3y^2} \\ & = -3x^2 + 4xy + 9y^2 \\ & = -3x^2 + 4xy + 9y^2 \\ & \text{trinomial} \end{aligned}$$

$$\begin{aligned} \#8b) & (15h + 6) - (2h - 18) - (5 + 7h) \\ & = \underline{15h} + \underline{6} - \underline{2h} + \underline{18} - \underline{5} - \underline{7h} \\ & = 15h - 2h - 7h + 6 + 18 - 5 \\ & = \underline{6h} + \underline{19} \end{aligned}$$

$$\begin{aligned} \#8e) & \underline{(4x^2 - 2xy + 7y^2)} + \underline{(6x^2 - 8xy - 3y^2)} - \underline{(5x^2 - xy + y^2)} + \underline{(x^2 - 3xy - 7y^2)} \\ & = \underline{4x^2} - \underline{2xy} + \underline{7y^2} + \underline{6x^2} - \underline{8xy} - \underline{3y^2} - \underline{5x^2} + \underline{xy} - \underline{y^2} + \underline{x^2} - \underline{3xy} - \underline{7y^2} \\ & = 6x^2 - 12xy - 4y^2 \\ & = 6x^2 - 12xy - 4y^2 \end{aligned}$$