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$$\begin{aligned} 5. \quad & 2(x^2 + y^2) + x^2(x - y) + 3xy - x^3 \\ & 2x^2 + 2y^2 + x^3 - x^2y + 3xy - x^3 \\ & 2x^2 + 2y^2 - x^2y + 3xy \end{aligned}$$

$$6(i) \quad 5(2x + 1) = 4(3x + 2)$$

$$10x + 5 = 12x + 8$$

$$5 - 8 = 12x - 10x$$

$$-3 = 2x$$

$$x = \frac{-3}{2}$$

$$(ii) \quad 12x + 5 = 4x - 1$$

$$12x - 4x = -1 - 5$$

$$8x = -6$$

$$x = \frac{-6}{8}$$

$$(iii) \quad \frac{(4x - 1)}{3} = \frac{(5x + 2)}{2}$$

$$2(4x - 1) = 3(5x + 2)$$

$$8x - 2 = 15x + 6$$

$$-2 - 6$$

$$-8 = 15x - 8x$$

$$7x = -8$$

$$x = \frac{-8}{7}$$

4 of 5