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ACHA3000

B of 4

$$(4) \quad 14x^2 + 3x - 11 \quad x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\Rightarrow 14x^2 + 3x - 11 = 0$$

$$\Rightarrow \frac{-3 \pm \sqrt{-3^2 - (4 \times 14 \times -11)}}{28}$$

$$x = 0.79, x = -1.00$$

$$\Rightarrow \frac{-3 \pm \sqrt{9 - (-616)}}{28}$$

$$\Rightarrow \frac{-3 \pm \sqrt{625}}{28}$$

$$\Rightarrow \cancel{x = 0.79}, \cancel{x = -1.00}$$

$$(5) \quad \begin{aligned} 5x + 3y &= 39 \quad (1) \\ 8x - 2y &= 42 \quad (2) \end{aligned}$$

$$\times 2 \quad 10x + 6y = 78$$

$$\times 3 \quad 24x - 6y = 126$$

$$(1) + (2) = 34x + 0y = 204 \quad \frac{204}{34} = 6$$

$$\therefore x = 6 \quad 10(6) + 6y = 78 \Rightarrow 6y = 18 \therefore y = 3$$

$$(6) \quad 5(2x^2 - y^2) - x^2(x^2 - y) - x^2y - x^4$$

$$\Rightarrow 10x^2 - 5y^2 - x^4 + x^2y - x^2y - x^4$$

$$\Rightarrow 10x^2 - 5y^2 - x^4 - x^4$$

$$\Rightarrow -2x^4 + 10x^2 - 5y^2$$