

3pm - 3/11/20 - ACHA 3000

Dale Smart
2005183

Page 5 of 7

$$5. \quad 2x \quad 5x + 3y = 39 \quad (1)$$

$$3x \quad 8x - 2y = 42 \quad (2)$$

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

$$+ \quad 24x - 6y = 126 \quad (4)$$

$$(2) + (3)$$

$$34x = 204$$

$$x = \frac{204}{34} = \boxed{x = 6}$$

Sub into

(1)

$$5(6) + 3y = 39$$

$$30 + 3y = 39$$

↘

$$3y = 39 - 30$$

$$3y = 9$$

$$\boxed{y = 3} \leftarrow y = \frac{9}{3}$$

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

$$10x^2 - 5y^2 - x^4 + \cancel{x^2y} - \cancel{x^2y} - x^4$$

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

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