

$$v) \frac{10x^5}{2x^2}$$

$$\Rightarrow 10 \div 2 = 5x$$

$$\Rightarrow 5 - 2 = 3$$

$$\Rightarrow = \boxed{5x^3}$$

$$⑤i) 2(x^2+y^2) + x^2(x-y) + 3xy - x^3$$

$$\Rightarrow 2x^2 + 2y^2 + x^3 - \cancel{x^2y} + 3xy - x^3$$

$$\Rightarrow \cancel{2x^2 + 2y^2 - x^2y + 3xy} \Rightarrow \boxed{2x^2 + 2y^2 - x^2y + 3xy}$$

$$⑥i) 5(2x+1) = 4(3x+2)$$

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

$$\Rightarrow 10x = 12x + 3$$

$$\Rightarrow 2x + 3 = 0$$

$$\Rightarrow -3 = 2x \therefore \boxed{x = -\frac{3}{2}}$$

$$ii) 12x + 5 = 4x - 1$$

$$\Rightarrow 12x + 6 = 4x$$

$$\Rightarrow 8x + 6 = 0$$

$$\Rightarrow 8x = -6$$

$$\Rightarrow x = -\frac{6}{8} \Rightarrow \boxed{-\frac{3}{4} = x}$$