

$$4) (i) x^8 \times x \times x^9 = x^{17}$$

$$(ii) (2x^3)^3 = 8x^9$$

$$(iii) \frac{x^{12} \times x^8}{x} = \frac{x^{20}}{x} = x^{19}$$

$$(iv) 5x^2 \times 3x^4 = 15x^6$$

$$(v) \frac{10x^5}{2x^2} = 5x^{2.5}$$

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

$$2x^2 + 2y^2 +$$

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

$$2x^2 + 2y^2 + x^3 - x^2y + 3xy - x^3$$