

$$\begin{array}{rcl} 3. & 5x + 2y = 22 & \times 3 \\ & 4x + 3y = 19 & \times -2 \end{array}$$

$$\begin{array}{r} 15x + 6y = 66 \\ + \quad -8x - 6y = -38 \\ \hline \end{array}$$

$$7x = 28$$

$$\boxed{x = 4}$$

$$5 \cdot 4 + 2y = 22$$

$$20 + 2y = 22$$

$$2y = 22 - 20$$

$$2y = 2$$

$$\boxed{y = 1}$$

$$40) x^8 \times x \times x \times x^9$$

$$= x^{8+1+9}$$

$$= x^{18}$$

$$(ii) (2x^3)^3$$

$$(2x^3)(2x^3)(2x^3)$$

$$8x^{3+3+3} = 8x^9$$

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

$$\frac{x^{12+8}}{x} = \frac{x^{20}}{x^1} = x^{19}$$

$$= x^{19}$$

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

$$15x^{2+4}$$

$$= 15x^6$$

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

$$\frac{10x^5}{2x^2} = \frac{5x^5}{x^2} = 5x^{5-2} = \boxed{5x^3}$$