

$$2 \text{ (iv)} \quad 4p^2q^2(p^2 - q^2) \\ = 4p^4q^2 - 4p^2q^4$$

$$\text{(v)} \quad (a+b+c)abc \\ = a^2bc + ab^2c + abc^2$$

$$3 \text{ (i)} \quad a^2 \times 2a^{22} \times 4a^{26} \\ = 8a^{50}$$

$$\text{(ii)} \quad \frac{2}{3}xy \times -\frac{9}{10}x^2y^2 \\ = \frac{\cancel{2}}{\cancel{3}} \times \frac{-9}{\cancel{10}5} \times x \times x^2 \times y \times y^2 \\ = -\frac{3}{5}x^3y^3$$

$$\text{(iii)} \quad -\frac{10}{3}pq^3 \times \frac{6}{5}p^3q \\ = -\frac{\cancel{10}^2}{\cancel{3}} \times \frac{\cancel{6}^2}{\cancel{5}} \times p \times p^3 \times q^3 \times q \\ = -4p^4q^4$$

$$\text{(iv)} \quad x \times x^2 \times x^3 \times x^4 \\ = x^{10}$$