

Q1

$$\text{iv } \frac{6p^2 \cancel{q^3} r}{3p^3 \cancel{q^3} r^{-2}}$$

$$= 2p^{-1} \times 1^{-1}$$

$$\begin{aligned} \times &\rightarrow + \\ \div &\rightarrow - \end{aligned}$$

$$\frac{2p^{-1} \times 3p^3}{6p^2}$$

$$r / r^{-2}$$

$$r / r = 1$$

$$r^1 / r^{-2} = 1^{-1}$$

$$r^1$$

$$r^{-2}$$

$$1 - 2 = -1$$

$$\text{v } \frac{2Fg}{16h} \times \frac{4gh^2}{4fh} \times \frac{32fh^3}{12f^3}$$

$$= \frac{2Fg}{16h} \times \frac{gh^2}{fh} \times \frac{16fh^3}{6f^3}$$

$$= \frac{2Fg}{16h} \times \frac{gh}{f} \times \frac{8fh^3}{3f^3}$$

$$= \frac{2Fg}{16h} \times \frac{gh}{f} \times \frac{8h^3}{3f^2}$$

$$\begin{aligned} & \frac{2 \times 4 \times 32}{16 \times 4 \times 12} \\ & \frac{2 \times 3 \times 32}{4 \times 2 \times 4 \times 12} \\ & \frac{2 \times 3 \times 32}{4 \times 2 \times 4 \times 12} \end{aligned}$$