RG

(b)
$$81^{\frac{5}{4}} \cdot 4^{\frac{-3}{2}} = (81^{\frac{1}{4}})^{\frac{5}{4}} \cdot \frac{1}{4^{\frac{3}{2}}}$$

$$3^{\frac{5}{4}} \cdot \frac{1}{(4^{\frac{1}{2}})^{\frac{3}{2}}} = \frac{34.3}{3^{\frac{3}{4}}} = \frac{343}{8}$$

(c)
$$6y^{\frac{2}{3}} \cdot 2y^{\frac{1}{2}} = 6 \cdot 2y^{\frac{2}{3}} \cdot 2y^{\frac{1}{2}}$$

$$= 12y^{\frac{2}{3}} + 12$$

$$= 12y^{\frac{2}{3}} + 12(\frac{2}{2})^{\frac{2}{3}} + 12(\frac{3}{3})$$

$$= 12y^{\frac{1}{6}}$$

RL [Ex6] Day 3

$$= \left(\frac{3^{2}}{3^{2}} + \frac{10}{6}\right) \left(\frac{8^{\frac{3}{3}}}{5^{\frac{13}{3}}}\right)$$

$$= 90 \text{ m}^{\frac{5}{3}} - \frac{12}{300} \left(8^{\frac{1}{3}}\right)^{2} \text{ y}$$

$$= \frac{36}{36}$$

$$= \left[m^3 + 2m \right]$$