

$$1 \left(\frac{1}{2}\right)^{\frac{1}{2}} \cdot \left(\frac{1}{2}\right)^{\frac{2}{3}} = \frac{1}{2}^{\frac{1}{2} + \frac{2}{3}} = \frac{1}{2}^{\frac{7}{6}}$$

2

$$\frac{3^2 \cdot \sqrt{3}}{3^5} = \frac{\sqrt{3}}{3^3}$$

3

$$\frac{\frac{2}{5}}{\left(\frac{2}{5}\right)^{\frac{3}{4}}} = \frac{2}{5}^2$$