

$$2. \quad \left(\frac{1}{2}\right)^{\frac{1}{2}} \cdot \left(\frac{1}{2}\right)^{\frac{1}{2}}$$

$$\frac{1}{2}^{\frac{1}{2}} = \frac{1}{2}^{\frac{1}{2}} \quad \left(\frac{1}{2}\right)^{\frac{1}{2}}$$

3.

$$\frac{3^2 \sqrt{3}}{3^5} = 3^{\frac{4}{2}} \cdot 3^{\frac{1}{2}} \quad 3^{\frac{5}{2}} \div 3^{\frac{1}{2}}$$

$$= 3^{\frac{5}{2}} \times \frac{1}{3^{\frac{1}{2}}} = \left(3\right)^{\frac{5}{2}}$$

4.

$$\frac{\frac{2}{5}}{\left(\frac{2}{5}\right)^{\frac{3}{4}}} = \frac{2}{5}^{\frac{2}{2}} \div \frac{2}{5}^{\frac{3}{4}} = \frac{1}{2} - \frac{3}{4} = \left(\frac{2}{5}\right)^{\frac{1}{4}}$$