

Evaluación

1

$$\left(\frac{1}{2}\right)^{\frac{1}{2} \cdot 3} \cdot \left(\frac{1}{2}\right)^{\frac{2}{3} \cdot 3}$$

$$\left(\frac{1}{2}\right)^{\frac{3+4}{6}} = \frac{1}{2}^{\frac{7}{6}}$$

2

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

$$= \frac{3^{\frac{4+1}{2}}}{3^{\frac{5}{1}}} = \frac{3^{\frac{5}{2}}}{3^{\frac{5}{1}}} = 3^{\frac{5}{2} - \frac{5}{1}} = 3^{\frac{5-10}{2}} = 3^{-\frac{5}{2}}$$

3

$$\frac{\left(\frac{2}{5}\right)^{\frac{1}{7}}}{\left(\frac{2}{5}\right)^{\frac{3}{4}}} = \left(\frac{2}{5}\right)^{\frac{1}{7} - \frac{3}{4}} = \left(\frac{2}{5}\right)^{\frac{4}{4} - \frac{3}{4}} = \left(\frac{2}{5}\right)^{\frac{1}{4}}$$