

$$\frac{\sqrt[4]{4}}{\sqrt[6]{8}} = \frac{\sqrt[4]{2^2}}{\sqrt[6]{2^3}} = \frac{\sqrt{2}}{\sqrt{2}} = 1.$$

$${}^{n-1}\sqrt{\frac{a}{\sqrt[n]{a}}} = {}^{n-1}\sqrt{\frac{a \sqrt[n]{a}^{n-1}}{a}} = \sqrt[n]{a}.$$

(Riesz Marcel, Győr.)