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

$3^{2}\sqrt{3}$ $\quad 3^{5}$ $\quad \frac{1}{2} + 2 = \frac{5}{2} - 5 = 3 - \frac{5}{2}$

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