

2 Realiza la siguiente operación

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

3 Realiza la siguiente operación

$$\frac{3^2 \sqrt[3]{3}}{3^5} = 3^2 \cdot 3^{\frac{1}{3}} = 3^{\frac{7}{3}} \cdot 3^{\frac{1}{3}} = 3^{\frac{7}{3} + \frac{1}{3}} = \frac{4+1}{2} = \frac{5}{2}$$

$$\frac{3^{\frac{5}{2}}}{3^{\frac{5}{7}}} = 3^{\frac{5}{2} - \frac{5}{7}} = \frac{5-10}{2} = \frac{-5}{2} = 3^{-\frac{5}{2}}$$

4. Realizar la siguiente operación

$$\frac{\frac{2}{5}}{\left(\frac{2}{5}\right)^{\frac{3}{4}}} = \frac{2}{5} \cdot \frac{1}{\frac{1}{4}} = \frac{4-3}{9} = \frac{1}{9} = \left(\frac{2}{5}\right)^{\frac{2}{4}}$$