



Simplificando os expoentes de fração (divisão)

Nome: _____

Encontro: Data: _____ Pontuação: _____

$$\left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^{-8}$$

$$\frac{\left(\frac{2}{7}\right)^{-7} \cdot \left(\frac{2}{7}\right)^8 \cdot \left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^4}{\left(\frac{2}{7}\right)^8 \cdot \left(\frac{2}{7}\right)^5}$$

$$\frac{\left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^7 \cdot \left(\frac{2}{3}\right)^{-9}}{\left(\frac{2}{3}\right)^7}$$

$$\frac{\left(\frac{3}{5}\right)^{-7} \cdot \left(\frac{3}{5}\right)^8 \cdot \left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^3}{\left(\frac{3}{5}\right)^{-2} \cdot \left(\frac{3}{5}\right)^7}$$

$$\left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-2} \cdot \left(\frac{1}{8}\right)^{-4}$$

$$\left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^{-8}$$

$$\frac{\left(\frac{2}{9}\right)^{-8} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^3}{\left(\frac{2}{9}\right)^{-5}}$$

$$\frac{\left(\frac{1}{4}\right)^7 \cdot \left(\frac{1}{4}\right)^3 \cdot \left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^9}{\left(\frac{1}{4}\right)^{-6} \cdot \left(\frac{1}{4}\right)^4}$$

$$\left(\frac{1}{8}\right)^{-7} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^8$$

$$\left(\frac{2}{5}\right)^7 \cdot \left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^{-4}$$

$$\left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right) \cdot \left(\frac{2}{9}\right)^9$$

$$\frac{\left(\frac{1}{6}\right)^{-5} \cdot \left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^{-5}}{\left(\frac{1}{6}\right)}$$

$$\frac{\left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^{-4} \cdot \left(\frac{4}{9}\right)^{-6} \cdot \left(\frac{4}{9}\right)^8}{\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right)^9}$$

$$\frac{\left(\frac{3}{5}\right)^{11} \cdot \left(\frac{3}{5}\right)^6 \cdot \left(\frac{3}{5}\right)^{-4} \cdot \left(\frac{3}{5}\right)^2}{\left(\frac{3}{5}\right)^6 \cdot \left(\frac{3}{5}\right)^{-9}}$$

$$\left(\frac{2}{9}\right)^7 \cdot \left(\frac{2}{9}\right)^9 \cdot \left(\frac{2}{9}\right)^{10}$$