



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

$$\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^{-3} \cdot \left(\frac{1}{4}\right)^{-10}$$

$$\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^8$$

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

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

$$\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-10}$$

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-10}$$

$$\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^6$$

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

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

$$\left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^6$$

$$\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-9}$$

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

$$\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right)^{-6}$$

$$\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^{-9}$$

$$\left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^{10}$$



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$$\left(\frac{1}{4}\right)^{-10}$$

$$\left(\frac{3}{7}\right)^9 \cdot \left(\frac{3}{7}\right)^8 \cdot \left(\frac{3}{7}\right)^8$$

$$\left(\frac{3}{7}\right)^{25}$$

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

$$\left(\frac{4}{9}\right)^{-4}$$

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

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

$$\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-10}$$

$$\left(\frac{2}{9}\right)^{-17}$$

$$\left(\frac{1}{2}\right)^{-7} \cdot \left(\frac{1}{2}\right)^{11} \cdot \left(\frac{1}{2}\right)^{-10}$$

$$\left(\frac{1}{2}\right)^{-6}$$

$$\left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^5 \cdot \left(\frac{3}{5}\right)^6$$

$$\left(\frac{3}{5}\right)^{19}$$

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

$$\left(\frac{2}{3}\right)$$

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

$$\left(\frac{2}{9}\right)^{-12}$$

$$\left(\frac{1}{8}\right)^{-6} \cdot \left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^6$$

$$\left(\frac{1}{8}\right)^{-3}$$

$$\left(\frac{1}{8}\right)^{-5} \cdot \left(\frac{1}{8}\right)^{-9}$$

$$\left(\frac{1}{8}\right)^{-14}$$

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

$$\left(\frac{1}{3}\right)^{-10}$$

$$\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right)^{-6}$$

$$\left(\frac{2}{3}\right)^{-11}$$

$$\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^6 \cdot \left(\frac{1}{2}\right)^{-9}$$

$$\left(\frac{1}{2}\right)^7$$

$$\left(\frac{3}{8}\right)^5 \cdot \left(\frac{3}{8}\right)^{10}$$

$$\left(\frac{3}{8}\right)^{15}$$