



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

$$\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^{-3} \cdot \left(\frac{1}{7}\right)^9$$

$$\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^5$$

$$\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-8}$$

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

$$\left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-7}$$

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

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

$$\left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^{-7}$$

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

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

$$\left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-2} \cdot \left(\frac{1}{8}\right)^7$$

$$\left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-6}$$

$$\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-9}$$

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

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



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$$\left(\frac{1}{7}\right)^2 \cdot \left(\frac{1}{7}\right)^{-9} \cdot \left(\frac{1}{7}\right)^{-3} \cdot \left(\frac{1}{7}\right)^9$$
$$\left(\frac{1}{7}\right)^{-1}$$

$$\left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^{-3} \cdot \left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^5$$
$$\left(\frac{4}{7}\right)^6$$

$$\left(\frac{1}{4}\right)^6 \cdot \left(\frac{1}{4}\right)^{-8}$$
$$\left(\frac{1}{4}\right)^{-2}$$

$$\left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^5 \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-9}$$
$$\left(\frac{2}{9}\right)^{-11}$$

$$\left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-7}$$
$$\left(\frac{1}{8}\right)^{-3}$$

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

$$\left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-7}$$
$$\left(\frac{4}{9}\right)^{-10}$$

$$\left(\frac{3}{8}\right)^{-1} \cdot \left(\frac{3}{8}\right)^{-7}$$
$$\left(\frac{3}{8}\right)^{-8}$$

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

$$\left(\frac{1}{4}\right)^{-5} \cdot \left(\frac{1}{4}\right)^2 \cdot \left(\frac{1}{4}\right)^{-5}$$
$$\left(\frac{1}{4}\right)^{-8}$$

$$\left(\frac{1}{8}\right)^2 \cdot \left(\frac{1}{8}\right)^{-2} \cdot \left(\frac{1}{8}\right)^7$$
$$\left(\frac{1}{8}\right)^7$$

$$\left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-4} \cdot \left(\frac{1}{2}\right)^{-6}$$
$$\left(\frac{1}{2}\right)^{-14}$$

$$\left(\frac{4}{5}\right)^4 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{10} \cdot \left(\frac{4}{5}\right)^{-9}$$
$$\left(\frac{4}{5}\right)^{-4}$$

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

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