



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

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

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

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

$$\left(\frac{4}{9}\right)^{-5} \cdot \left(\frac{4}{9}\right)^{-4} \cdot \left(\frac{4}{9}\right)^7$$

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

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

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

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

$$\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-5}$$

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

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

$$\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-10}$$

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

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-9}$$

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



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$$\left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{-8}$$
$$\left(\frac{2}{9}\right)^{-6}$$

$$\left(\frac{2}{7}\right)^{-9} \cdot \left(\frac{2}{7}\right)^{-3}$$
$$\left(\frac{2}{7}\right)^{-12}$$

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

$$\left(\frac{4}{9}\right)^{-5} \cdot \left(\frac{4}{9}\right)^{-4} \cdot \left(\frac{4}{9}\right)^7$$
$$\left(\frac{4}{9}\right)^{-2}$$

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

$$\left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^8 \cdot \left(\frac{1}{6}\right)^8$$
$$\left(\frac{1}{6}\right)^{11}$$

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

$$\left(\frac{2}{5}\right)^{11} \cdot \left(\frac{2}{5}\right)^{-3}$$
$$\left(\frac{2}{5}\right)^8$$

$$\left(\frac{1}{3}\right)^{10} \cdot \left(\frac{1}{3}\right)^{-5}$$
$$\left(\frac{1}{3}\right)^5$$

$$\left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^8 \cdot \left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^3$$
$$\left(\frac{1}{2}\right)^{17}$$

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

$$\left(\frac{1}{3}\right)^{-2} \cdot \left(\frac{1}{3}\right)^{-10}$$
$$\left(\frac{1}{3}\right)^{-12}$$

$$\left(\frac{4}{9}\right)^{-9} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^{-4}$$
$$\left(\frac{4}{9}\right)^{-5}$$

$$\left(\frac{4}{7}\right)^{-5} \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{-9}$$
$$\left(\frac{4}{7}\right)^5$$

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