



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

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

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

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

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

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

$$\left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^4$$

$$\left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{-7}$$

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

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

$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^6$$

$$\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^7$$

$$\left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{11}$$

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

$$\left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^{11}$$

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



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$$\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^3 \cdot \left(\frac{1}{9}\right)$$
$$\left(\frac{1}{9}\right)^{10}$$

$$\left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^{-5} \cdot \left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^{11}$$
$$\left(\frac{2}{5}\right)^{-12}$$

$$\left(\frac{1}{5}\right)^6 \cdot \left(\frac{1}{5}\right)^2 \cdot \left(\frac{1}{5}\right)^8$$
$$\left(\frac{1}{5}\right)^{16}$$

$$\left(\frac{2}{9}\right)^4 \cdot \left(\frac{2}{9}\right)^9$$
$$\left(\frac{2}{9}\right)^{13}$$

$$\left(\frac{1}{5}\right)^{-1} \cdot \left(\frac{1}{5}\right)^{-4} \cdot \left(\frac{1}{5}\right)^{-3}$$
$$\left(\frac{1}{5}\right)^{-8}$$

$$\left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^8 \cdot \left(\frac{4}{7}\right)^{10} \cdot \left(\frac{4}{7}\right)^4$$
$$\left(\frac{4}{7}\right)^{32}$$

$$\left(\frac{2}{9}\right)^2 \cdot \left(\frac{2}{9}\right)^{-1} \cdot \left(\frac{2}{9}\right)^{-5} \cdot \left(\frac{2}{9}\right)^{-7}$$
$$\left(\frac{2}{9}\right)^{-11}$$

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

$$\left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right) \cdot \left(\frac{2}{7}\right)^7 \cdot \left(\frac{2}{7}\right)^4$$
$$\left(\frac{2}{7}\right)^{19}$$

$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^6$$
$$\left(\frac{1}{5}\right)^{-4}$$

$$\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^7$$
$$\left(\frac{1}{2}\right)^{12}$$

$$\left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{-9} \cdot \left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^{11}$$
$$\left(\frac{1}{2}\right)^9$$

$$\left(\frac{1}{5}\right)^4 \cdot \left(\frac{1}{5}\right)^2$$
$$\left(\frac{1}{5}\right)^6$$

$$\left(\frac{3}{7}\right)^7 \cdot \left(\frac{3}{7}\right)^{11}$$
$$\left(\frac{3}{7}\right)^{18}$$

$$\left(\frac{1}{9}\right)^6 \cdot \left(\frac{1}{9}\right)^4$$
$$\left(\frac{1}{9}\right)^{10}$$