



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

$$\left(\frac{2}{9}\right)^{10} \cdot \left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-2}$$

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

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

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

$$\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^4 \cdot \left(\frac{2}{7}\right)^{-1} \cdot \left(\frac{2}{7}\right)^6$$

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

$$\left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-3}$$

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

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

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

$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^5$$

$$\left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^{-7}$$

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

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

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



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$$\left(\frac{2}{9}\right)^{10} \cdot \left(\frac{2}{9}\right)^8 \cdot \left(\frac{2}{9}\right)^{-6} \cdot \left(\frac{2}{9}\right)^{-2}$$
$$\left(\frac{2}{9}\right)^{10}$$

$$\left(\frac{1}{4}\right)^4 \cdot \left(\frac{1}{4}\right)^9 \cdot \left(\frac{1}{4}\right)^7$$
$$\left(\frac{1}{4}\right)^{20}$$

$$\left(\frac{4}{5}\right)^5 \cdot \left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^8$$
$$\left(\frac{4}{5}\right)^{16}$$

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

$$\left(\frac{2}{7}\right)^{-4} \cdot \left(\frac{2}{7}\right)^4 \cdot \left(\frac{2}{7}\right)^{-1} \cdot \left(\frac{2}{7}\right)^6$$
$$\left(\frac{2}{7}\right)^5$$

$$\left(\frac{1}{5}\right)^{-5} \cdot \left(\frac{1}{5}\right)^{-8}$$
$$\left(\frac{1}{5}\right)^{-13}$$

$$\left(\frac{1}{8}\right)^{10} \cdot \left(\frac{1}{8}\right)^8 \cdot \left(\frac{1}{8}\right)^{-3}$$
$$\left(\frac{1}{8}\right)^{15}$$

$$\left(\frac{1}{3}\right)^{-4} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^7 \cdot \left(\frac{1}{3}\right)^6$$
$$\left(\frac{1}{3}\right)^{18}$$

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

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

$$\left(\frac{1}{5}\right)^{-10} \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^8 \cdot \left(\frac{1}{5}\right)^5$$
$$\left(\frac{1}{5}\right)^{11}$$

$$\left(\frac{2}{7}\right)^6 \cdot \left(\frac{2}{7}\right)^{10} \cdot \left(\frac{2}{7}\right)^{-8} \cdot \left(\frac{2}{7}\right)^{-7}$$
$$\left(\frac{2}{7}\right)$$

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

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

$$\left(\frac{1}{2}\right)^4 \cdot \left(\frac{1}{2}\right)^{-2} \cdot \left(\frac{1}{2}\right)^3$$
$$\left(\frac{1}{2}\right)^5$$