



Simplificando os expoentes de fração
(multiplicação)

Nome: _____

Encontro: Data: _____ Pontuação: _____

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

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

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

$$\left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^{-4} \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{11}$$

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

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

$$\left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-10}$$

$$\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-10}$$

$$\left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^6$$

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

$$\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-8}$$

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

$$\left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{11}$$

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

$$\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^5$$



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$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-4} \cdot \left(\frac{1}{6}\right)^6 \cdot \left(\frac{1}{6}\right)^5$$
$$\left(\frac{1}{6}\right)^{12}$$

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

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

$$\left(\frac{2}{5}\right)^{-9} \cdot \left(\frac{2}{5}\right)^{-4} \cdot \left(\frac{2}{5}\right)^{-6} \cdot \left(\frac{2}{5}\right)^{11}$$
$$\left(\frac{2}{5}\right)^{-8}$$

$$\left(\frac{3}{8}\right)^3 \cdot \left(\frac{3}{8}\right)^{-9}$$
$$\left(\frac{3}{8}\right)^{-6}$$

$$\left(\frac{2}{3}\right)^{-7} \cdot \left(\frac{2}{3}\right)^{-9} \cdot \left(\frac{2}{3}\right)^{-7}$$
$$\left(\frac{2}{3}\right)^{-23}$$

$$\left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{-9} \cdot \left(\frac{4}{5}\right)^{-10}$$
$$\left(\frac{4}{5}\right)^{-16}$$

$$\left(\frac{4}{9}\right)^6 \cdot \left(\frac{4}{9}\right)^{-3} \cdot \left(\frac{4}{9}\right)^{-10}$$
$$\left(\frac{4}{9}\right)^{-7}$$

$$\left(\frac{4}{9}\right)^{10} \cdot \left(\frac{4}{9}\right)^8 \cdot \left(\frac{4}{9}\right)^3 \cdot \left(\frac{4}{9}\right)^6$$
$$\left(\frac{4}{9}\right)^{27}$$

$$\left(\frac{4}{7}\right)^7 \cdot \left(\frac{4}{7}\right)^{-6} \cdot \left(\frac{4}{7}\right)^7$$
$$\left(\frac{4}{7}\right)^8$$

$$\left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^7 \cdot \left(\frac{3}{8}\right)^6 \cdot \left(\frac{3}{8}\right)^{-8}$$
$$\left(\frac{3}{8}\right)^{11}$$

$$\left(\frac{1}{6}\right)^5 \cdot \left(\frac{1}{6}\right)^{-6} \cdot \left(\frac{1}{6}\right)^{-1} \cdot \left(\frac{1}{6}\right)^{-10}$$
$$\left(\frac{1}{6}\right)^{-12}$$

$$\left(\frac{4}{7}\right)^5 \cdot \left(\frac{4}{7}\right)^9 \cdot \left(\frac{4}{7}\right)^{11}$$
$$\left(\frac{4}{7}\right)^{25}$$

$$\left(\frac{3}{5}\right)^3 \cdot \left(\frac{3}{5}\right)^{10}$$
$$\left(\frac{3}{5}\right)^{13}$$

$$\left(\frac{1}{3}\right)^{-3} \cdot \left(\frac{1}{3}\right)^9 \cdot \left(\frac{1}{3}\right)^{-1} \cdot \left(\frac{1}{3}\right)^5$$
$$\left(\frac{1}{3}\right)^{10}$$