

Nombre:

Fecha:

Curso:

Paralelo:

Aplicando propiedades de las Potencias en la resolución de ejercicios

Calcule las siguientes potencias:

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

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

a. $\left(\frac{3}{5}\right)^4 =$

b. $\left(-\frac{9}{2}\right)^0 =$

c. $\left(-\frac{2}{3}\right)^5 =$

d. $\left(-\frac{8}{3}\right)^2 =$

Resuelva las siguientes potencias, aplicando las Propiedades:

a. $\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^3 = \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$

b. $\left(\frac{4}{5}\right)^{10} \div \left(\frac{4}{5}\right)^7 = \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$

c. $\left[\left(\frac{1}{2}\right)^2\right]^3 = \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$

$$\text{d. } \left(\frac{4}{3}\right)^{-5} = \left(\frac{\quad}{\quad}\right) = \text{---}$$

$$\text{e. } \left(\frac{2}{5}\right)^4 \cdot \left(\frac{2}{5}\right)^7 \div \left(\frac{2}{5}\right)^6 = \left(\frac{\quad}{\quad}\right) = \text{---}$$

$$\begin{aligned} \text{f. } & \left(-\frac{7}{8}\right)^4 \cdot \left[\left(-\frac{7}{8}\right)^3\right]^2 \div \left(-\frac{7}{8}\right)^8 \\ &= \left(\frac{\quad}{\quad}\right) \cdot \left(\frac{\quad}{\quad}\right) \div \left(\frac{\quad}{\quad}\right) \\ &= \left(\frac{\quad}{\quad}\right) \div \left(\frac{\quad}{\quad}\right) = \left(\frac{\quad}{\quad}\right) = \text{---} \end{aligned}$$

$$\begin{aligned} \text{g. } & \left[\left(\frac{9}{4}\right)^2 \cdot \left(\frac{9}{4}\right)^6\right]^3 \div \left(\frac{4}{9}\right)^{-20} \\ &= \left[\left(\frac{\quad}{\quad}\right)\right] \div \left(\frac{\quad}{\quad}\right) \\ &= \left(\frac{\quad}{\quad}\right) \div \left(\frac{\quad}{\quad}\right) = \left(\frac{\quad}{\quad}\right) = \text{---} \end{aligned}$$

$$\begin{aligned} \text{h. } & \left[\left(\frac{2}{3}\right)^4\right]^5 \div \left[\left(\frac{3}{2}\right)^{-6} \cdot \left(\frac{2}{3}\right)^5\right]^2 \\ &= \left(\frac{\quad}{\quad}\right) \div \left[\left(\frac{\quad}{\quad}\right) \cdot \left(\frac{\quad}{\quad}\right)\right] \\ &= \left(\frac{\quad}{\quad}\right) \div \left[\left(\frac{\quad}{\quad}\right)\right] \\ &= \left(\frac{\quad}{\quad}\right) \div \left(\frac{\quad}{\quad}\right) = \left(\frac{\quad}{\quad}\right) = \left(\frac{\quad}{\quad}\right) = \text{---} \end{aligned}$$