

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

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

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

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

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

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