

Reglas de Exponentes (I)

Simplifique cada expresión.

1. $\frac{(-2)^{-2}}{(-2)^{-9}}$

2. $9^5 \cdot 9^1$

3. $\frac{(-2)^3}{(-2)^7}$

4. $((-4)^{-7})^{-9}$

5. $((-9)^7)^{-1}$

6. $\frac{3^4}{3^9}$

7. $\frac{(-4)^{-4}}{(-4)^{-5}}$

8. $3^{-4} \cdot 3^{-4}$

9. $2^3 \cdot 2^9$

10. $2^7 \cdot 4^7$

Reglas de Exponentes (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad & \frac{(-2)^{-2}}{(-2)^{-9}} \\ & = (-2)^7 \end{aligned}$$

$$\begin{aligned} 2. \quad & 9^5 \cdot 9^1 \\ & = 9^6 \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{(-2)^3}{(-2)^7} \\ & = (-2)^{-4} = \frac{1}{(-2)^4} \end{aligned}$$

$$\begin{aligned} 4. \quad & ((-4)^{-7})^{-9} \\ & = (-4)^{63} \end{aligned}$$

$$\begin{aligned} 5. \quad & ((-9)^7)^{-1} \\ & = (-9)^{-7} = \frac{1}{(-9)^7} \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{3^4}{3^9} \\ & = 3^{-5} = \frac{1}{3^5} \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{(-4)^{-4}}{(-4)^{-5}} \\ & = (-4) \end{aligned}$$

$$\begin{aligned} 8. \quad & 3^{-4} \cdot 3^{-4} \\ & = 3^{-8} = \frac{1}{3^8} \end{aligned}$$

$$\begin{aligned} 9. \quad & 2^3 \cdot 2^9 \\ & = 2^{12} \end{aligned}$$

$$\begin{aligned} 10. \quad & 2^7 \cdot 4^7 \\ & = 8^7 \end{aligned}$$