

Matemáticas Naydelin Luna 4to juridico

Semana 23
Simplificación de Raíces.

4to. Jurídico
NARDILIN LONA

Instrucciones: Resuelva los siguientes ejercicios en su Cuaderno y Coloree las Respuestas Correcta.

1) $\sqrt[40]{1,296^{10}} \longrightarrow \boxed{6} \boxed{4}$
 $\sqrt[40]{1,296^{10}} = 1,296^{\frac{10}{40}} = 1,296^{\frac{1}{4}}$

2) $\sqrt[5]{100,000^5} \longrightarrow \boxed{100,000} \boxed{10}$
 $\sqrt[5]{100,000^5} = 100,000$

3) $\sqrt[3]{24,389^0} \longrightarrow \boxed{0} \boxed{1}$
 $\sqrt[3]{24,389^0} = \sqrt[3]{1} = 1$

4) $\sqrt{21^4} \longrightarrow \boxed{441} \boxed{54}$
 $\sqrt{21^4} = \sqrt{21^2} = 441$

5) $\sqrt[36]{4,096^9} \longrightarrow \boxed{15} \boxed{8}$
 $\sqrt[36]{4,096^9} = \sqrt[4]{4,096} = 8$

6) $\sqrt[10]{4^{25}} \longrightarrow \boxed{15} \boxed{32}$
 $\sqrt[10]{4^{25}} = 4^{\frac{25}{10}} = 4^{\frac{5}{2}} = 4^2 = 16$

$$4) \quad \sqrt[3]{2,197^3} \quad \longrightarrow \quad \boxed{150} \mid \boxed{2,197}$$

$$\sqrt[3]{2,197} = 2,197$$

$$8) \quad \sqrt[40]{32,768^0} \quad \longrightarrow \quad \boxed{1} \mid \boxed{6}$$

$$\sqrt[40]{32,768} = \sqrt[40]{1} = 1$$

$$9) \quad \sqrt[8]{12^{16}} \quad \longrightarrow \quad \boxed{4} \mid \boxed{144}$$

$$\sqrt[8]{12^{16}} = 2 \sqrt{12} = 12 \times 12 = 144$$

$$10) \quad \sqrt[9]{867^0} \quad \longrightarrow \quad \boxed{0} \mid \boxed{1}$$

$$\sqrt[9]{867} = \sqrt[9]{1} = 1$$

$$11) \quad \sqrt{25^4} \quad \longrightarrow \quad \boxed{125} \mid \boxed{625}$$

$$\sqrt{25^4} = \sqrt{25} = 25 \times 25 = 625$$

$$12) \quad \sqrt[56]{2,187^{24}} \quad \longrightarrow \quad \boxed{3} \mid \boxed{27}$$

$$\sqrt[56]{2,187^{24}} = 2,187^{24/56} = 2,187^{3/7} = 27$$