



Matemáticas 1^º Medio

Curricular

forma: 1974207

1.- ¿Cuál es el valor de $\left(\frac{4}{5}\right)^{-6} : \left(\frac{8}{25}\right)^{-6}$?

A) $\left(\frac{5}{2}\right)^{12}$

B) $\left(\frac{5}{2}\right)^6$

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

D) $\left(\frac{5}{2}\right)^{-6}$

2.- 6^{-5} es equivalente a:

A) -6^5

B) -30

C) $\frac{1}{6^5}$

D) 1

3.- $(-3)^2 + (-4)^1 - 2^3 =$

A) -21

B) 5

C) 13

D) -3

4.- Si $m = 0,4$, $n = 0,25$ y $p = 1,25$, entonces ¿cuál es el valor de la expresión

$$\frac{m^{-1} + n}{p}?$$

A) 2

B) $\frac{9}{5}$

C) $\frac{11}{5}$

D) $\frac{13}{25}$

5.- $-2^3 + 5^0 + 3^2 - 4^1 =$

- A) -6
- B) -4
- C) -2
- D) 0

6.- En la siguiente tabla se muestra el crecimiento ideal (en millones) que deberían tener las abejas en los siguientes años en relación con la cantidad inicial 2.5 millones de abejas.

Años	1	2	3	4
Cantidad de abejas	7,5	22.5	67.5	202.5

Si se desea estimar cuantas abejas habrán dentro de n años, ¿cuál de las siguientes formulas nos permite calcular lo pedido en millones de abejas?

- A) $A(n) = 2.5(3)^n$
- B) $A(n) = 2.5(3)^{12n}$
- C) $A(n) = 2.5(3)^{\frac{n}{12}}$
- D) $A(n) = (2.5 \cdot 3)^n$
- E) $A(n) = (2.5 \cdot 3)^{12n}$

7.- Cuál es el valor de

$$\frac{(0,002)^{-1} \cdot (0,1)^2}{(0,2)^2}$$

- A) 5^3
- B) $5 \cdot 10^2$
- C) 10^3
- D) 10^{-3}

8.- $(\frac{5}{4})^0$ es equivalente a:

- A) 0
- B) 1
- C) $\frac{5}{4}$
- D) $\frac{4}{5}$

9.- El resultado de $3^3 + (-2)^3 - 2^4 + 5^0$ es:

- A) 4
- B) 5
- C) 6
- D) 7

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

- A) $-\frac{5}{2}$
- B) $-\frac{2}{5}$
- C) $-\frac{4}{25}$
- D) $\frac{2}{5}$

HOJA DE RESPUESTA

POR FAVOR, NO RAYAR NI ESCRIBIR SOBRE LOS CUADRADOS NEGROS



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