



PT Matemática

Prueba de transición

forma: 2066274

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

A) 0

B) $\frac{1}{4}$

C) $\frac{3}{4}$

D) $\frac{1}{2}$

E) $\frac{1}{16}$

2.- Al reducir la expresión $4\sqrt{3} + 2\sqrt{8} - 5\sqrt{27} + 9\sqrt{32}$, ¿qué valor se obtiene como resultado?

A) $32\sqrt{2} - 19\sqrt{3}$

B) $40\sqrt{2} - 19\sqrt{3}$

C) $32\sqrt{2} + 19\sqrt{3}$

D) $40\sqrt{2} + 11\sqrt{3}$

E) $40\sqrt{2} - 11\sqrt{3}$

3.- El valor de $\left(\frac{2}{3}\right)^{-2}$ es:

A) $\frac{4}{9}$

B) $-\frac{4}{3}$

C) $\frac{9}{4}$

D) $-\frac{9}{4}$

E) $-\frac{4}{9}$

4.- Se puede determinar el valor de $(-1)^n$ si:

(1) n es par

(2) $n + 1$ es impar

A) (1) por sí sola

B) (2) por sí sola

C) Ambas juntas, (1) y (2)

D) Cada una por sí sola, (1) ó (2)

E) Se requiere información adicional

5.- La siguiente tabla muestra las longitudes de onda asociadas a cada tipo de radiación:

Tipos de radiación	Longitud de onda (m)
Ondas de radio	10^3
Microondas	10^{-2}
Infrarrojo	10^{-5}
Luz visible	$0,5 \cdot 10^{-6}$
Ultravioleta	10^{-8}
Rayos X	10^{-10}
Rayos gamma	10^{-12}

De acuerdo a la tabla anterior, ¿cuál de las siguientes expresiones es equivalente a la longitud de onda de la luz ultravioleta?

A) 0,0000001 m

B) 0,00000001 m

C) 0,00000008 m

D) 100.000.000 m

E) 100.000.000.000 m

6.- $(0,4)^{-2} : (0,2)^{-2} =$

A) 25

B) 4

C) 1

D) $\frac{1}{25}$

E) $\frac{1}{4}$

- 7.- Si $R = \sqrt{3} + 1$, ¿cuál es el valor de $(R + 1)(R - 1)$?
- A) 2
 - B) $3 + 2\sqrt{3}$
 - C) $4 + 2\sqrt{3}$
 - D) 4
 - E) 5
- 8.- ¿Cuál(es) de las siguientes igualdades es (son) **verdadera(s)**?
- I. $2^{\frac{1}{2}} \cdot 3^{\frac{1}{2}} = \sqrt{6}$
 - II. $3^{\frac{3}{9}} \cdot 5^{\frac{4}{12}} = \sqrt[3]{15}$
 - III. $3^{\frac{1}{2}} + 2^{\frac{1}{2}} = \sqrt{5}$
- A) Solo I
 - B) Solo II
 - C) Solo III
 - D) Solo I y II
 - E) Solo I y III
- 9.- $5^{21} + 5^{21} + 5^{21} + 5^{21} + 5^{21} =$
- A) 5^{21}
 - B) 5^{21^5}
 - C) 5^{36}
 - D) 5^{105}
 - E) 5^{22}
- 10.- Dada la siguiente expresión: $\sqrt{\frac{\sqrt{\sqrt[3]{11}}}{\sqrt[3]{\sqrt{11}}}}$, ¿cómo puede ser simplificada?
- A) 1
 - B) $\sqrt{11}$
 - C) $\sqrt[6]{11}$
 - D) $\sqrt{22}$
 - E) 2

HOJA DE RESPUESTA

POR FAVOR, NO RAYAR NI ESCRIBIR SOBRE LOS CUADRADOS NEGROS



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