



01 sabendo que $[(3^5)^2 \cdot 3^5] : (3^3)^2 = 3^a$

$$[3^{10} \cdot 3^5] : 3^6 = 3^a \quad 01. 11+5-6 = 11+5-6 \quad 0$$

$$3^{15} : 3^6 = 3^a \quad 11+5-6 = 3 \quad 02. 11+5 = 11+5 \quad 0$$

$$3^{15-6} = 3^9 \quad 11+5-9 = 3 \quad 03. 11+5 = 11+5 \quad 0$$

a) = 10

b) = 14

c) = 19

d) = 24

e) = 29 \rightarrow 29

02 simplificando-se a expressão $[2^9 : (2^2 \cdot 2^3)]^{-3}$ obtenha

$$[2^9 : (2^2 \cdot 2^3)]^{-3}$$

$$[2^9 : 2^5]^{-3}$$

$$[2^4]^{-3} = 1$$

A) 2^{36}

B) 2^{-36}

C) 2^{-6}

D) $1 \rightarrow R=1$

E) $\frac{1}{3}$



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03) O valor numérico da expressão para $a = 1.000$, $b = 100$ e $x = 0,4$ é:

$$1000 \cdot 100^{0,4}$$

$$(10)^3 \cdot (10)^{0,4}$$

04) a metade de 4^{22} é:

$$4^{22} = \frac{4^{22}}{2} = \left(\frac{2^2}{2}\right)^{22} = 2^{22}$$

$$R = 2^{43} \text{ E}$$

05) calculando $(0,1) \cdot (0,001) \cdot 10^{-1}$ obtemos

$$a) (0,1) \cdot (0,001) \cdot 10^{-1} = 10^{-1} \cdot 10^{-3} \cdot 10^{-1} = 10^{-5}$$

$$A) 10^{-4}$$

$$B) 10^{-2} \text{ R } 10^{-2} \text{ B}$$

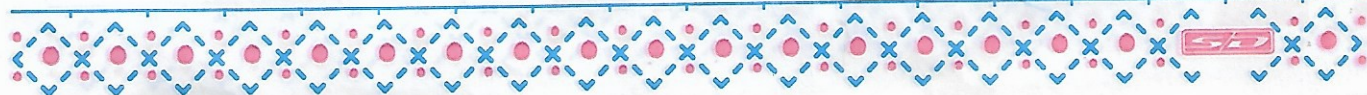
$$C) 10^2$$

$$D) 10^{-3}$$

$$E) 10^4$$

$$1000 \cdot$$

$$100$$





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6) Efetuando a divisão $x^3 \div x^{-2}$, teremos:

$$a = \frac{x^3}{x^{-2}} = x^{3-(-2)} = x^{3+2} = x^5$$

(A) x^5

(B) $x^5 - 2x$

(C) x^5 RE x^5 (C)

(D) $x^5 - 2$

x^5

07) Se $7^5 = 243$, o valor de 7^2 é:

Se $7^5 = 243$ $7^2 =$

$(7^2)^3 = 243$

$7^2 = 3$

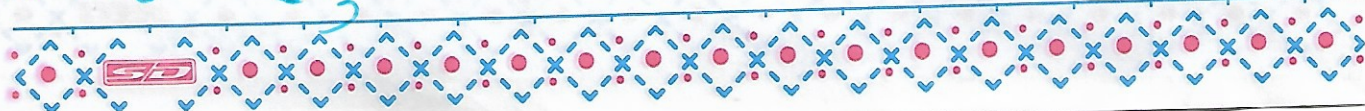
$\frac{1}{7} = \frac{1}{3}$

(A) $\frac{1}{3}$ RE $\frac{1}{3}$

(B) $\frac{1}{6}$

(C) $\frac{1}{15}$

(D) $\frac{1}{30}$ e $\frac{1}{3}$



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② (MALK) $5^x = M$ e $5^y = M (0,004)^{-x+2y}$ JALE

$$5^x = M \text{ e } 5^y = M \cdot (0,004)^{-x+2y}$$

$$(0,4)^{-x+2y}$$

$$\left(\frac{4}{100}\right)^{-x+2y}$$

$$\frac{1}{25} = \frac{1}{5^2} = 5^{-2}$$

$$\left(\frac{1}{25}\right)^{-x+2y}$$

$$5^{2x-4y} = 5^{2x} \cdot 5^{-4y}$$

$$(5^x)^2 \div (5^y)^4 = M^2 \cdot n^y$$

$$M^2 \div n^y$$

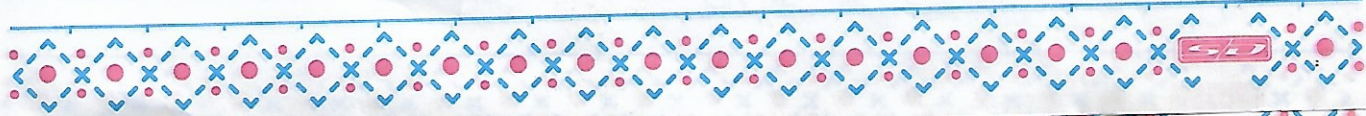
② $M^2 \cdot n^{-4}$

③ $M^{-2} \cdot n^{-4}$

④ $M^2 \cdot n^{1/4}$

⑤ $M^2 \cdot n^4$

⑥ $M^2 \cdot n^{-4}$ R $M^2 \cdot n^4$ ⑥





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9 (UEL) Se x e y são números reais, então

1. $R = (2x \cdot 3y)^2 = 2^2 x \cdot 3^2 y$

$$R = (2x \cdot 3y)^2 = 2^2 x \cdot 3^2 y$$

$$R = B$$

