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data: 09/09/21

matemática

Tarefa Básica

$$① \text{ a) } (-3)^4 = (-3) \cdot (-3) \cdot (-3) \cdot (-3) = 81$$

$$\text{b) } 0,5^3 = 0,5 \cdot 0,5 \cdot 0,5 = 0,125$$

$$\text{c) } 15^1 = 15$$

$$\text{d) } 1^3 = 1$$

$$\text{e) } 0^{20} = 0$$

$$\text{f) } 172^1 = 172$$

$$\text{g) } 1^{422} = 1$$

$$\text{h) } 94^0 = 1$$

$$② \text{ a) } 3^3 = 3 \cdot 3 \cdot 3 = 27$$

$$\text{b) } (-2)^2 = (-2) \cdot (-2) = 4$$

$$\text{c) } 3^{-2} = \left(\frac{1}{3}\right) \cdot \left(\frac{1}{3}\right) = \frac{1}{9}$$

$$\text{d) } (-2)^{-3} = \frac{-1}{2} \cdot \frac{-1}{2} \cdot \frac{1}{2} = -\frac{1}{8}$$

$$(b) -8, -\frac{1}{8}, -\frac{1}{9}, 22$$

B, D, C, A

$$(3) \left(\frac{1}{80}\right)^2 = \left(\frac{1}{80}\right) \cdot \left(\frac{1}{80}\right) = \frac{1}{6400}$$

$$(b) \left(\frac{1}{8}\right)^2 = \left(\frac{1}{8}\right) \cdot \left(\frac{1}{8}\right) = \frac{1}{64}$$

$$(c) \left(\frac{2}{5}\right)^3 = \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right) \cdot \left(\frac{2}{5}\right) = \frac{8}{125} = 0,064$$

$$(d) \left(\frac{1}{900}\right)^2 = \left(\frac{1}{900}\right) \cdot \left(\frac{1}{900}\right) = \frac{1}{810.000}$$

$$(e) \left(\frac{8}{10}\right)^3 = \left(\frac{8}{10}\right) \cdot \left(\frac{8}{10}\right) \cdot \left(\frac{8}{10}\right) = \frac{512}{1.000}$$

$$(4) 5^{-1} = \frac{1}{5} = \left(\frac{1}{5}\right)^1 = \frac{1}{5}$$

$$(5) \begin{aligned} 241 &= 0,241 \cdot 10^3 \\ 241 &= 0,241 \cdot 1000 \end{aligned}$$

$$(6) \begin{aligned} 241 &= 2,41 \cdot 10^2 \\ 241 &= 2,41 \cdot 100 \end{aligned}$$

$$(7) \begin{aligned} 241 &= 24,1 \cdot 10^1 \\ 241 &= 24,1 \cdot 10 \end{aligned}$$

$$\textcircled{b} -0,24 = 2,41 \cdot 10^{-1}$$

$$0,241 = 2,41$$

$$\textcircled{c} 0,241 = 24,1 \cdot 10^{-2}$$

$$0,241 = 24,1 \cdot 0,01$$

$$\textcircled{d} 0,241 = 241 \cdot 10^{-3}$$

$$0,241 = 241 \cdot 0,001$$

$$\textcircled{e} 0,000241 = 10^{-4}$$

$$0,000241 = 2,41 \cdot 0,0001$$

$$\textcircled{H} 0,00024 = 24,1 \cdot 10^{-5}$$

$$0,000241 = 2,41 \cdot 0,00001$$

$$\textcircled{1} 0,003412 = 3,412 \cdot 10^{-3}$$

$$0,003412 = 3,412 \cdot 0,001$$

$$\textcircled{6} 2x^0 + x^{\frac{3}{4}} + 18x^{-\frac{1}{2}}, \quad x = 81$$