



Exercícios

a) $(-3)^4 = (-3) \cdot (-3) \cdot (-3) \cdot (-3) = 81$

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

c) $15^1 = 15^1 = 15$

d) $1^{13} = 1^{13} = 1$

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

f) $17^1 = 17^1 = 17$

g) $1^{422} = 1$

h) $91^0 = 1$

02. (Unicomp)

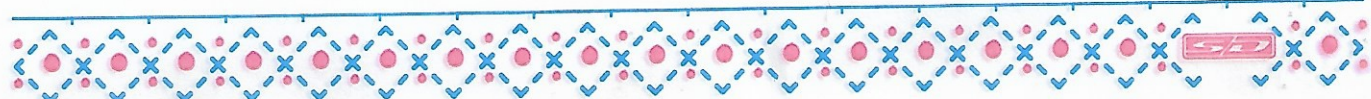
a) Calcule as seguintes potências:

a) $= 3^3$, b) $= (-2)^3$, c) $= 3^2$ e d) $= (-2)^{-3}$

$3 \cdot 3 \cdot 3 = (-2) \cdot (-2) \cdot (-2) \cdot (-2) = 3 \cdot 3 = (-2)$

$27 = -8$ e $c = 9 = (-2)^{-3}$

$27 = -8$ e $c = \frac{1}{9}$, d) $\frac{1}{8}$





DOM	SEG	TER	QUA	QUI	SEX	SÁB
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$$a) \left(\frac{1}{80}\right)^2 = \left(\frac{1}{80}\right) \cdot \left(\frac{1}{80}\right) = \frac{1}{6400}$$

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

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

$$d) \left(\frac{1}{800}\right)^2 = \left(\frac{1}{800}\right) \cdot \left(\frac{1}{800}\right) = \frac{1}{640.000}$$

$$e) \left(\frac{8}{10}\right)^3 = \left(\frac{8}{10}\right) \cdot \left(\frac{8}{10}\right) \cdot \left(\frac{8}{10}\right) = \frac{512}{1000} = 0,512$$

R C 0,064

O valor da expressão

$$04) 5^{-1} - \frac{1}{2} = \frac{1}{5} - \frac{1}{2} = \frac{2-5}{10} = \frac{-3}{10} = -0,3$$

A 0,3

R = B = 0,3

C = 0,2

D 0,2

E 0





05 Completar o expoente de base 10

a) $241 = 0,241 \cdot 10^3$ $0,241 \times 10 \times 10 \times 10 = 241$

b) $241 = 2,41 \cdot 10^2$ $2,41 \times 10 \times 10 = 241$

c) $241 = 24,1 \cdot 10^1$ $24,1 \times 10 = 241$

d) $0,241 = 2,41 \cdot 10^{-1}$ $2,41 \div 10 = 0,241$

e) $0,241 = 24,1 \cdot 10^{-2}$ $24,1 \div 10 \div 10 = 0,241$

f) $0,241 = 241 \cdot 10^{-3}$ $241 \div 10 \div 10 \div 10 = 0,241$

g) $0,000241 = 2,41 \cdot 10^{-4}$ $2,41 \div 10 \div 10 \div 10 \div 10 = 0,000241$

h) $0,000241 = 241 \cdot 10^{-5}$ $241 \div 10 \div 10 \div 10 \div 10 \div 10 = 0,000241$

i) $0,0003412 = 3,412 \cdot 10^{-3}$ $3,412 \div 10 \div 10 \div 10 = 0,003412$

06 (HACK) O Valor de

$2x^0 + x^{3/4} + 18x^{-1/2}$ quando $x=81$, e

$2 \cdot 81^0 + 81^{3/4} + 18 \cdot 81^{-1/2}$
 $2 \cdot 1 + (81)^{3/4} + 18 \cdot (81)^{-1/2}$
 $2 + 3^3 + 18 \cdot \frac{1}{9}$

$2 + 27 + 18 \cdot \frac{1}{9} = 2 + 27 + 2 = 31$

