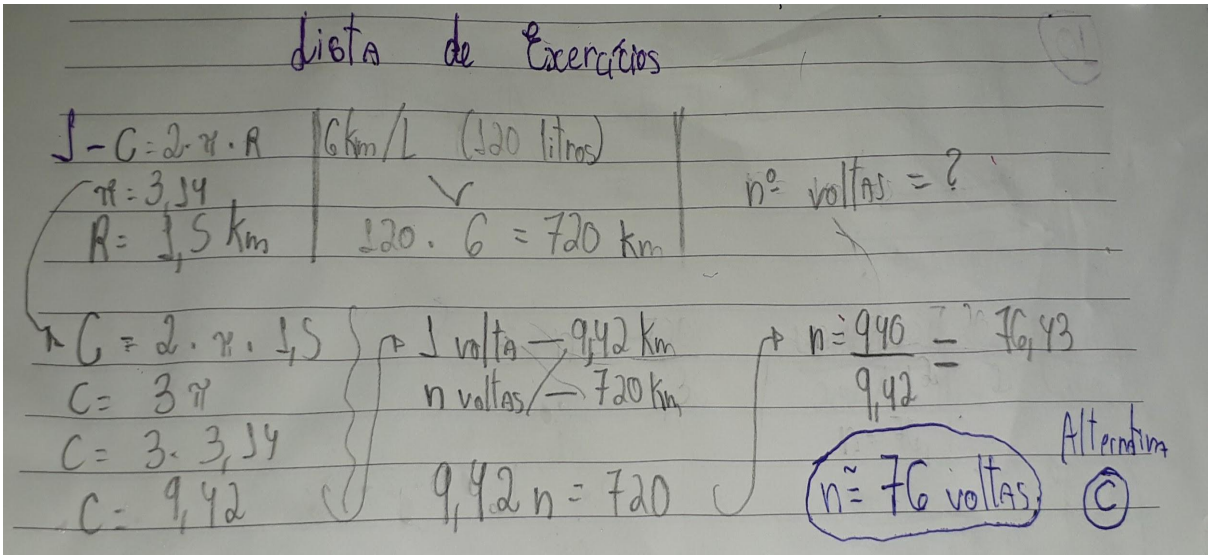
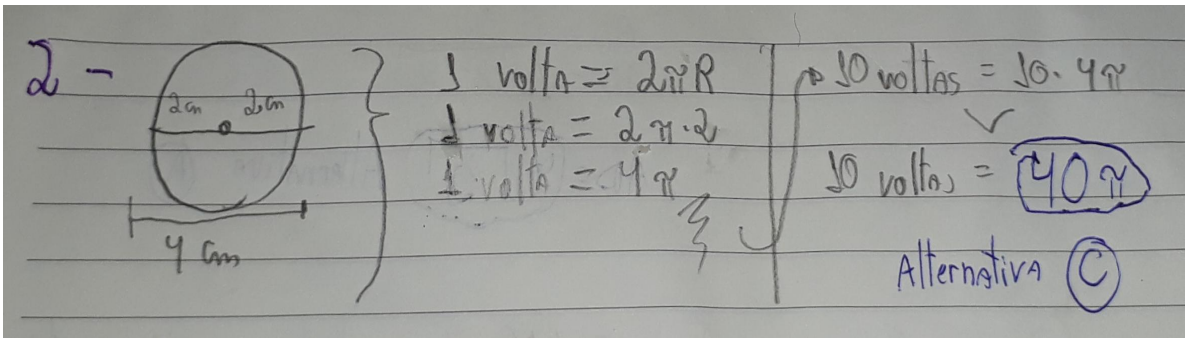
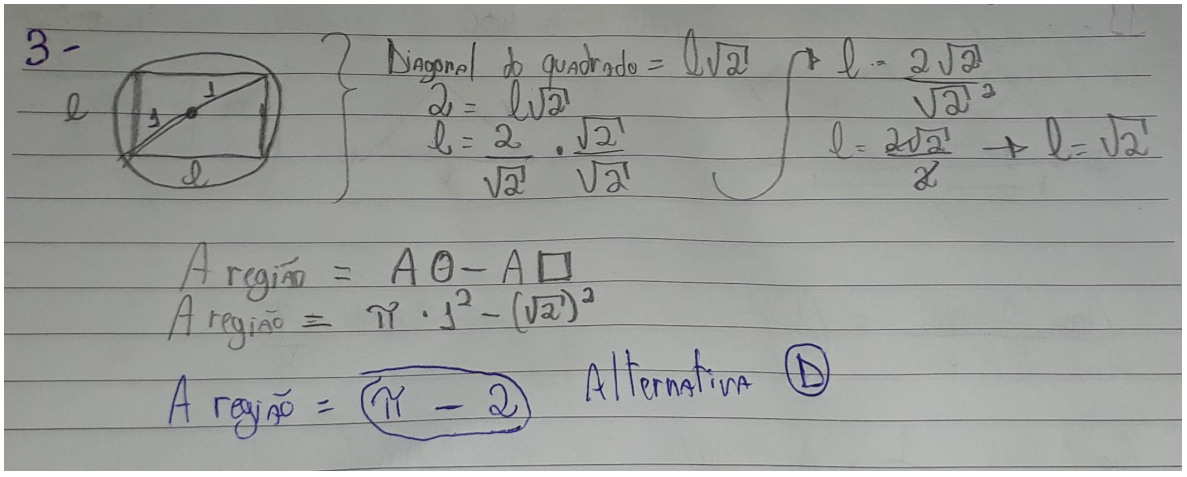
Giovanna Santana Pennisi - CTII 350

Lista de Exercícios - Aula 29







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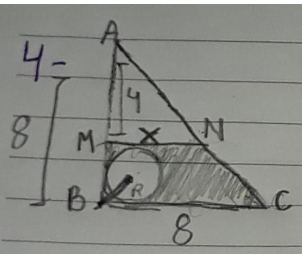


$\pi = 3,1$

$R = \frac{b}{2}$

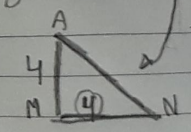
$R = \frac{4}{2} = 2$

$\frac{ab}{am} = \frac{bc}{mn}$

$\frac{8}{4} = \frac{8}{x}$

$8x = 32$

$x = \frac{32}{8} \Rightarrow x = 4$



$A_{MNCB} = \frac{(B+b).h}{2}$

$A_{MNCB} = \frac{(8+4).4}{2}$

$A_{MNCB} = \frac{12.4}{2}$

$A_{MNCB} = 12.2$

$A_{MNCB} = 24\ cm^2$

$A_C = \pi . R^2$

$A_C = 3,1 . 2^2$

$A_C = 3,1 . 4$

$A_C = 12,4\ cm^2$

Área hachurada $= A_{MNCB} - A_C$

A. hachurada $= 24 - 12,4$

Área hachurada $= 11,6\ cm^2$

Alternativa (A)

5- $C_1 \rightarrow R_1 = 10\ cm$

$C_2 \rightarrow R_2 = 5\ cm$

$\frac{\text{Área } C_1}{\text{Perímetro } C_2} \Rightarrow ??$

$\frac{A_{C_1}}{P_{C_2}} = \frac{\pi . 10^2}{2 . \pi . 5} = \frac{100}{2.5} = \frac{10}{1} = 10\ cm$

Alternativa (C)

6- Diâmetro vírus $= 0,02 . 10^{-3}\ mm$

Área da colônia $= 1\ cm^2$

D. vírus $= 0,02 . 10^{-3} . 10^{-1}\ cm$

D. vírus $= 0,02 . 10^{-4}\ cm$

D. vírus $= 2 . 10^{-2} . 10^{-4} \rightarrow 2 . 10^{-6}\ cm$

Quantos vírus cabem em uma fileira de 1 cm? $\frac{1}{15}$

$\frac{1}{2 . 10^{-6}} = 0,5 . 10^{-6} = 5 . 10^{-1} . 10^{6} = 5 . 10^{5}$

Fileiras verticais e horizontais

$(5 . 10^5) . (5 . 10^5)$

$25 . 10^{10}$ Alternativa (C)

7- $A_{grama} = A_{terreno} - A_{casa} - A_{piscina} - A_{vestiário}$

$A_g = A_{\square\, 40m \times 15m} - A_{\triangle\, 12 \times 24m} = A_{\bigcirc\, 4} - A_{\square\, 3,5m \times 3,5m}$

$A_g = 15 \cdot 40 - \frac{12 \cdot \cancel{24}^{12}}{\cancel{2}} - \pi \cdot 4^2 - 3,5 \cdot 3,5$

$A_g = 600 - 144 - 3,14 \cdot 16 - 12,25$

$A_g = 456 - 50,24 - 12,25$

$A_g = 405,76 - 12,25$

$A_g = 393,51\ m^2$

m^2	R$
1	2,40
393,51	X

$X = 393,51 \cdot 2,4$

$X \cong$ R$ 944,40

Alternativa C