

Tarefa

1-

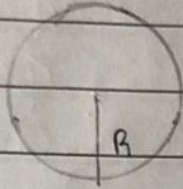
$$R = 1,5 \text{ km} ; \pi = 3,14$$

$$2p = CO$$

$$CO = 2\pi R$$

$$CO = 23,14 \cdot 1,5$$

$$CO = 9,42 \text{ tamanho da pista}$$



- O carro tem 120L de gasolina, a cada 6km gasta 1L, então
km que o carro percorreu: $6 \cdot 120 = 720 \text{ km}$

$$\text{qtd de voltas} = \frac{720}{9,42} = 76,43$$

C

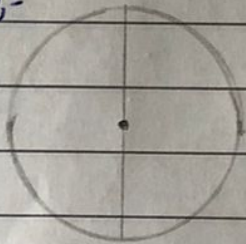
2-

$$2p = CO$$

$$CO = 2\pi r$$

$$CO = 2\pi 2$$

$$CO = 4\pi$$



$$\text{diâmetro} = 2r = 4 \text{ cm}$$

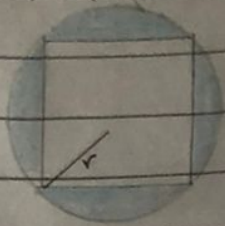
$$r = 20 \text{ m}$$

- o carro deu 10 voltas, então o carro percorreu:

$$10 \cdot 4\pi = 40\pi$$

C

3-



$$r = 1$$

$$d = r \cdot 2$$

$$A_{ext} = A_c - A_q$$

$$d = 1 \cdot 2$$

$$d = 2$$

$$A_c = \pi \cdot R^2$$

$$d = l\sqrt{2}$$

$$A_q = l^2$$

$$A_{ext} = A_c - A_q$$

$$A_c = \pi \cdot 1^2$$

$$2 = l\sqrt{2}$$

$$A_q = (\sqrt{2})^2$$

$$A_{ext} = \pi - 2$$

$$A = \pi$$

$$l = \frac{2}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

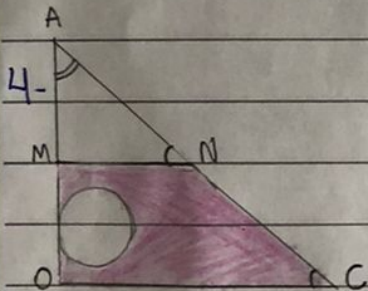
$$A_q = 2$$

$$l = 2\sqrt{2}$$

$$2$$

$$l = \sqrt{2}$$

$$| \pi - 2 |$$



$$\pi = 3,1$$

$$B = BC = 8$$

$$b = MN = 4$$

$$v = MN/2 = 4/2 = 2$$

$$AB = BC \Rightarrow 8 = 8$$

$$AM \quad MN \quad 4 \quad MN$$

$$A_c = \pi \cdot r^2$$

$$A_c = 3,1 \cdot 2^2$$

$$A_c = 12,4$$

$$A_c = 12,4$$

$$MN \cdot 8 = 8 \cdot 4$$

$$A_{trap} = (B + b) \cdot h$$

$$MN = 8 \cdot 4$$

$$8$$

$$(8 + 4) \cdot 4 \Rightarrow (12) \cdot 2$$

$$MN = 4$$

$$2$$

$$A_{trap} = 24 \text{ cm}^2$$

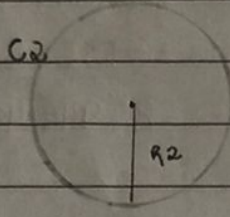
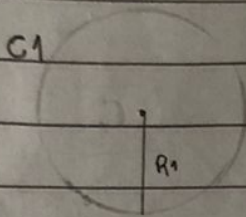
$$A_{hAC} = A_{trap} - A_c$$

$$A_{hAC} = 24 - 12,4$$

$$A_{hAC} = 11,6$$

$$A$$

5-



$$R_1 = 10 \text{ cm}$$

$$R_2 = 5 \text{ cm}$$

Razão entre a área de C1 e o perímetro de C2

$$A_{C1} = \pi \cdot R^2$$

$$C_2 = 2\pi \cdot R_2$$

$$R = \frac{A_{C1}}{C_2}$$

$$A_{C1} = \pi \cdot 10^2$$

$$C_2 = 2\pi \cdot 5$$

$$C_2$$

$$A_{C1} = 100\pi$$

$$C_2 = 10\pi$$

$$R = \frac{100\pi}{10\pi} = R = 10 \text{ cm}$$

C

6-

• diâmetro = $0,02 \cdot 10^{-3}$

• área da superfície = $1 \text{ cm}^2 = 10 \text{ mm}$

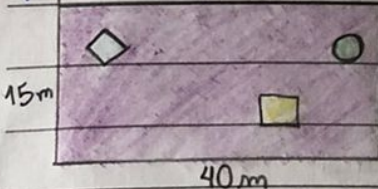
$$\frac{10}{0,02 \cdot 10^{-3}} = 500000 \Rightarrow 5 \cdot 10^5 \text{ (números por fileiras)}$$

$$0,02 \cdot 10^{-3}$$

$$5 \cdot 10^5 \cdot 5 \cdot 10^5 = 25 \cdot 10^{10}$$

C

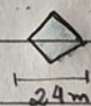
7-



$$A_r = b \cdot h$$

$$A_r = 40 \cdot 15$$

$$A_r = 600 \text{ m}^2$$



$$A_l = \frac{d \cdot l}{2}$$

$$A_l = \frac{24 \cdot 12}{2}$$

$$A_l = 12 \cdot 12$$

$$A_l = 144 \text{ m}^2$$



$$A_q = l^2$$

$$A_q = 3,5^2$$

$$A_q = 12,25$$

$$r = 4$$



$$A_c = \pi \cdot R^2$$

$$A_c = 3,14 \cdot 4^2$$

$$A_c = 3,14 \cdot 16$$

$$A_c = 50,25 \text{ m}^2$$

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S T Q Q S S

$$A_{gram} = A_r - (A_l + A_c + A_q)$$

$$A_{gram} = 600 - (144 + 50,25 + 12,25)$$

$$A_{gram} = 600 - 206,5$$

$$A_{gram} = 393,5 \text{ m}^2$$

$$Q_{gasta} = A_{gram} \cdot 2,40$$

$$Q_{gasta} = 393,5 \cdot 2,40$$

$$Q_{gasta} = R\$ 944,40$$

C