

Tarefa Básica

$$1. C = 2\pi \cdot 1,5 \rightarrow C = 3\pi \text{ km}$$

$$1. L = 6 \text{ km}$$

$$x = 720 \text{ km}$$

$$120 L = x$$

$$x = \frac{720}{3\pi} = \frac{240}{\pi} = \frac{240}{3,14} \rightarrow \boxed{x \approx 76}$$

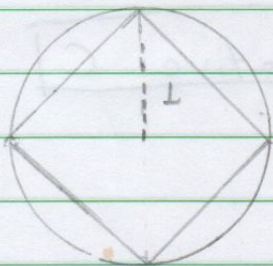
Alternative C

$$2. C = 2\pi \cdot 2 \rightarrow C = 4\pi$$

Alternative C

$$V = 10 \cdot 4\pi \rightarrow \boxed{V = 40\pi}$$

3.



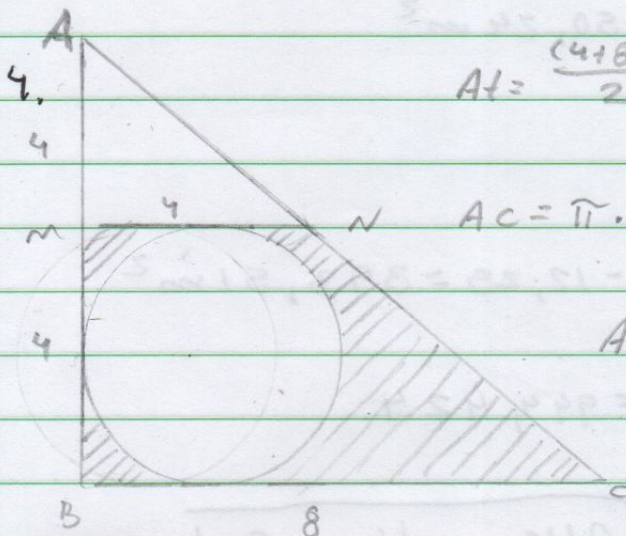
$$A_c = \pi \cdot 1^2 \rightarrow A_c = \pi$$

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

$$A_g = (\sqrt{2})^2 \rightarrow A_g = 2$$

$$A_{\text{interna}} = \boxed{\pi - 2}$$

Alternative D



$$A_t = \frac{(4+8) \cdot 4}{2} = 12 \cdot 2 \rightarrow A_t = 24 \text{ cm}^2$$

$$A_c = \pi \cdot 2^2 = 3,1 \cdot 4 \rightarrow A_c = 12,4 \text{ cm}^2$$

$$A = 24 - 12,4 \rightarrow \boxed{A = 11,6 \text{ cm}^2}$$

Alternative A

$$5. A_{c1} = \pi \cdot 10^2 \rightarrow A_{c1} = 100\pi \text{ cm}^2$$

$$C_{c2} = 2\pi \cdot 5 \rightarrow C_{c2} = 10\pi \text{ cm}$$

$$R = \frac{100\pi}{10\pi} \rightarrow R = 10 \text{ cm} \quad \boxed{\text{Alternativa C}}$$

6. A área da superfície plana é igual a $10 \text{ mm} \times 10 \text{ mm}$, então:

$$x = \frac{10}{0,02 \cdot 10^{-3}} = \frac{10}{0,00002} = \frac{10}{\frac{2}{100000}} = 10 \cdot \frac{100000}{2} \rightarrow x = 500000$$

Como ambos os lados são iguais, basta multiplicar esse valor por ele mesmo:

$$y = (5 \cdot 10^5)^2 \rightarrow y = 25 \cdot 10^{10} \quad \boxed{\text{Alternativa C}}$$

$$7. \text{A retângulo} = 40 \cdot 15 = 600 \text{ m}^2$$

$$\text{A retângulo} = \frac{12 \cdot 24}{2} = 144 \text{ m}^2$$

$$A_c = 3,14 \cdot 4^2 = 3,14 \cdot 16 = 50,24 \text{ m}^2$$

$$A_q = 3,5^2 = 12,25 \text{ m}^2$$

$$A_{\text{gramado}} = 600 - 144 - 50,24 - 12,25 = 393,51 \text{ m}^2$$

$$1 \text{ m}^2 = \text{R\$ } 2,40 \quad x = 994,424$$

$$393,51 \text{ m}^2 = x$$

Alternativa C