

$$1. C = 2 \cdot \pi \cdot R$$

$$R = 1,5 \text{ km}$$

$$6 \text{ km} / 6 = 120 \cdot 6 = 720 \text{ km}$$

$$n = \frac{720}{9,42}$$

$$\begin{aligned} C &= 2 \cdot \pi \cdot 1,5 \\ C &= 3 \pi = 3 \cdot 3,14 \\ C &= 9,42 \end{aligned}$$

$$n \approx 76$$

Alternativa C.

$$2. 10 \text{ V}$$

$$D = 4$$

$$R = 2$$

$$C = 2 \cdot \pi \cdot 2$$

$$C = 4 \pi \cdot 10$$

$$C = 40 \pi \text{ Alternativa C}$$

$$3. R = 1$$

$$A = ?$$

$$A_0 = l^2$$

$$l = 12$$

$$A_0 = \pi \cdot R$$

$$A = \pi \cdot (1)^2 \cdot (12)^2$$

$$A = \pi \cdot 2$$

Alternativa D

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

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

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

$$AC = 3,1 \cdot 4$$

$$AC = 12,4 \text{ cm}^2$$

$$A_{\text{Hoch}} = 24 - 12,4 = 11,6 \text{ cm}^2$$

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

Alternativa A

$$5 - C_1 = R_1 = 10 \text{ cm}$$

$$C_2 = R_2 = 5 \text{ cm}$$

$$AC_1 = \pi \cdot R^2$$

$$CC_2 = 2 \cdot \pi \cdot R$$

$$AC_1 = 10^2 \cdot \pi = 100 \pi$$

$$CC_2 = 2 \cdot \pi \cdot 5 = 10 \pi$$

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

Alternativa C

$$6 - D = 0,02 \cdot 10^{-3} \text{ mm}$$

$$A = 1 \text{ cm}^2$$

$$D = 2 \cdot 10^{-2} \cdot 10^{-4} = 2 \cdot 10^{-6} \text{ cm}$$

$$* = \frac{1}{2 \cdot 10^6} = 0,5 \cdot 10^6 = 5 \cdot 10^5$$

$$* = (5 \cdot 10^5) \cdot (5 \cdot 10^5) = 25 \cdot 10^{10}$$

Alternativa C

$$7 - Ag = A\Box - A\Diamond - A\circ - A\Box$$

$$Ag = 15,40 - 12,12 - \pi \cdot 4^2 - 3,5 \cdot 3,5$$

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

$$Ag = 405,76 - 12,25$$

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

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

$$X = R\$944,40$$

Alternativa C