01 - 1,5 Km de raio 120 litros, 1,6 Km

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

$C = 2 \cdot \pi \cdot 1,5$

$C = 3\pi = 9,42$

número de voltas completas

120

6

720 Km ÷ 9,42 = 76 C

02 - 10 voltas em uma pista circular

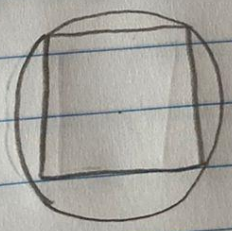
4 cm de diâmetro

2 raio. percorreu

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

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

3. Raio 1, está inscrito

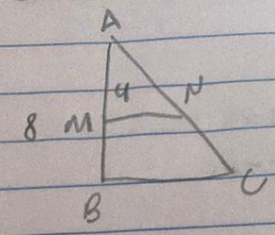


$l^2 = 1 + 1 = 2$

$A = \pi \cdot R$

$A = \pi \cdot 2$

04 - Os catetos ABC medem 8 cm, sendo N e M



$R = \frac{4}{2} - 2$ $\quad \frac{8}{4} = \frac{8}{x} = \frac{32}{8} = 4$

$\frac{(8+4)\cdot 4}{2} - 12 \cdot 2 = 24\,cm^2$

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

$A_c = 3,1 \cdot 4 = 12,4\,cm^2$

$24 - 12,4 = 11,6\,cm^2$

A

05 - $R_1 = 10\,cm$ $\quad C_1$ e C_2

$A_{c1} = \pi \cdot 10^2 = 100$ $\quad \frac{100}{10} = 10\,cm$

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

06 - $0,02 \cdot 10^{-3} \cdot 10^{-1}$

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

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

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

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

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

$A_g \quad 405,76 - 12,25$

$A_g = 393,51\,m^2 \cdot 2,4 = 944,40$