- Tarefa básica 1

Q1 - Cuja altura mede 3m e tem área total
Quanto mede o lado da base quadrada

$A_T = 2AB + A_L$

$80 = 2l^2 + (4 \cdot 3 \cdot l)$

$80 = 2l^2 + 12l \rightarrow$

$12^2 - 2^2 \cdot 2 \cdot (-80)$

$144 - 4 \cdot 2 \cdot -80$ $\quad x1\ 16/4 = 4m$

$\Delta 144 + 640 = 784$ $\quad x2\ -40/4 = -10$

Q2 - Prisma hexagonal regular
base igual a $24\sqrt{3}$ hexagonal
altura igual $2\sqrt{3}$

$$24\sqrt{3} = \frac{6l^2\sqrt{3}}{4}$$

$$96 = 6l^2 = l = \frac{96}{6} = \sqrt{16} = 4\ cm$$

$A_l\ 4 \cdot 6 \cdot 2\sqrt{3}$

$A_l = 48\sqrt{3}\ cm^2$

Q3 - Prisma reto de base hexagonal, raio do círculo $r = 2$
$h = \sqrt{3}$

$$6 \cdot \frac{2^2\sqrt{3}}{4} = 6\sqrt{3} \quad A_l = 6 \cdot 2\sqrt{2} = 12\sqrt{3}$$

Área Total $= 2 \cdot 6\sqrt{3} + 12\sqrt{3}$

$12\sqrt{3} + 12\sqrt{2}$

$24\sqrt{3}$ B

Tarefa Básica 2

01 - 0,5m. Parte externa 51cm x 26cm x 12,5

51 - (2 · 0,5) = 50
26 - (2 · 0,5) = 25 } x 15000 cm³ - 0,05 m³
12,5 - 0,5 = 12

02 - Cubo área total 72cm². diagonal

$72 = a^2$

$72 = 6a^2$

$\frac{72}{6} = 12 = \sqrt{12} = 2\sqrt{3}$

$D = \sqrt{3} \cdot (2\sqrt{3})$

$D = \sqrt{3} \cdot 12 = \sqrt{36}$

$\sqrt{36} = 6$

03 - 5cm de aresta

$\frac{5}{100} = 0,5m \quad V = a^3$

$0,5^3 \quad V = 0,125 m^3$

↳ 125 litr

4 - 1 metro de aresta

1000 litros - 1 litro = 999

1 m³ 1000 l

1 m³ - x 999 l

$x = \frac{1}{1000} = 0,001 m^3$

5 - abc

$2a \cdot 2b \cdot c \rightarrow V'$ abc $V' = 4v$

6 - lado mede $4\sqrt{3}$ $^3 = 64 \cdot 3 \cdot \sqrt{3} = 192\ cm^3$

$$\frac{4\sqrt{3} \cdot 6}{2} = 12\sqrt{3}$$

$$\frac{192\sqrt{3}}{12\sqrt{3}} = 16 \qquad 3 \cdot 4\sqrt{3} \cdot 16 \rightarrow 192\sqrt{3}$$

$$A_{TOTAL} = 2 \cdot 12\sqrt{3} + 192\sqrt{3}$$

$2 \cdot 4$

$$A_{TOTAL} = 216\sqrt{3}\ cm^2$$