Tarefa Básica 1

1. $2x^2 + 12x = 80$

$\Delta = 12^2 + 320$

$\Delta = 784$

$x = \frac{-12 \pm 28}{4}$ → $x' = 4$ → $x'' = -10$ (x)

$x = 4\,m$

2. $V = 4\sqrt{3} \cdot 2\sqrt{3}$

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

3. $A_b = 6 \cdot \frac{2^2\sqrt{3}}{4}$

$A_b = 6\sqrt{3}$

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

$A_l = 12\sqrt{3}$

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

$A_T = 24\sqrt{3}$

(B)

4. $5^2 = h^2 + 3^2$

$h = \sqrt{16}$

$h = 4$

$5 \cdot 5 \cdot 4 = 100\,m^3$

(D)

5. $S_b = (15 \cdot 10)/2$

$S_b = 75\ cm^2$

$V = 75\ cm^2 \cdot 10\,cm$

$V = 750\ cm^2$

(C)

Tarefa Básica 2

1. $0,50 \cdot 0,25 \cdot 0,12 = 0,015\ m^3$ (A)

2. $72 = 6x^2$
$x = \sqrt{12}$
$x = 2\sqrt{3}\ m$
$d = 2\sqrt{3} \cdot \sqrt{3}$
$d = 6$
(B)

3. $V = 0,5^3$
$V = 0,125 \cdot 1000$
$V = 125\ l$ (A)

4. $1000 - 1000x = 999$
$1000x = 1$
$x = 0,001\ m$

5. V_2 = o volume 2 é 4 vezes
$4V_1$ o volume 1 (C)

6. $V_c = (4\sqrt{3})^3$
$V_c = 192\sqrt{3}$
$192\sqrt{3} = h \cdot [(4\sqrt{3})^2 \cdot \sqrt{3}] / 4$
$192\sqrt{3} = h \cdot (16 \cdot 3\sqrt{3}) / 4$
$h = \frac{(4 \cdot 192\sqrt{3})}{48\sqrt{3}}$
$h = 4 \cdot 4$
$h = 16$
$A_p = 2 \cdot [(4\sqrt{3})^2 \cdot \sqrt{3}] / 4 + 3 \cdot 16 \cdot 4\sqrt{3}$
$A_P = 2 \cdot \frac{(48\sqrt{3})}{4} + 192\sqrt{3}$

$A_P = 24\sqrt{3} + 192\sqrt{3}$
$A_P = 216\sqrt{3}$ (D)