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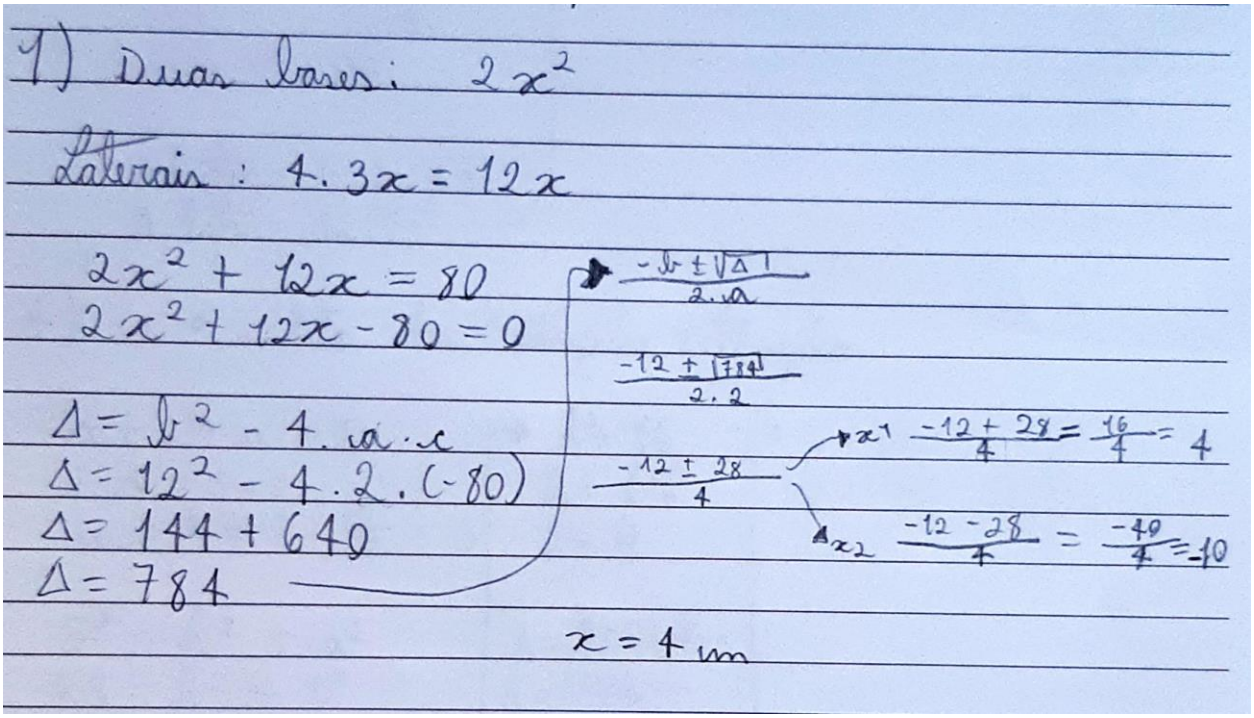
Sala: CTII 317



2) $A_{later.} = 24\sqrt{3} \cdot 2\sqrt{3} \cdot 6$

$A_{later.} = 288\sqrt{3}$

$A_{later} = \frac{288\sqrt{3}}{6} = 48\sqrt{3}\ cm^2$

3) $A_{\triangle} = \frac{6^2 \cdot 2^2\sqrt{3}}{4}$ (÷4)

$A_{\triangle} = 3 \cdot \frac{2^2\sqrt{3}}{2}$

$A_{\triangle} = 3 \cdot \frac{4\sqrt{3}}{2}$ (÷2)

$A_{\triangle} = 3 \cdot 2\sqrt{3}$

$A_{\triangle} = 6\sqrt{3}$

$A_{later} = 6 \cdot 2 \cdot \sqrt{3}$

$A_{later} = 12 \cdot \sqrt{3}$

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

$A_{Tot} = 12\sqrt{3} + 12\sqrt{3}$

$A_{Tota} = 24\sqrt{3}$ letra B

4) a → cateto do triângulo retângulo

$a + 2 + a = 8$

$2a = 8 - 2$

$a = \frac{8-2}{2} = \frac{6}{2} = 3$

$5^2 = h^2 + a^2$

$25 = h^2 + 3^2$

$25 = h^2 + 9$

$h^2 = 25 - 9$

$h^2 = 16$

$h = \sqrt{16}$

$h = 4$

$A = \frac{(B+b) \cdot h}{2}$

$A = \frac{(8+2) \cdot 4}{2}$

$A = \frac{10 \cdot 4}{2}$

$A = \frac{40}{2} = 20$

$V = 20 \cdot 5$

$V = 100$ letra D

5) hipotenusa: $a^2 = b^2 + c^2$

$a^2 = 15^2 + 10^2$

$a^2 = 225 + 100$

$a^2 = 325$

$a = \sqrt{325}$

$a = 5\sqrt{13}$

$A_b = \frac{10 \cdot 15}{2} = \frac{150}{2} = 75\ cm^2$

$A_{Tot} = 2 \cdot A_b + A_{later} = 2 \cdot (75) + (10 \cdot 10) \cdot (15) \cdot (10) + (5\sqrt{13})(10)$

$A_{Tot} = 50(303 + \sqrt{13})$

$V = 75 \cdot 10 = 750\ cm^2$ letra C

Parte 2

1) Comprimento: $51 - 2 \cdot 0,5 = 51 - 1 = 50\ cm$

Largura: $26 - 2 \cdot 0,5 = 26 - 1 = 25\ cm$

Altura: $12,5 - 0,5 = 12\ cm$

$0,50\ m \cdot 0,25\ m \cdot 0,12\ m$

$V = (0,50 \cdot 0,25 \cdot 0,12) = 0,015$ letra A

2) $A_{tot} = 6 \cdot x^2$

$72 = 6 \cdot x^2$

$x^2 = 12$

$x = \sqrt{12}$

$x = 2\sqrt{3}$

$d = x \cdot \sqrt{3}$

$d = 2\sqrt{3} \cdot \sqrt{3}$

$d = 2 \cdot 3$

$d = 6$ m letra B

3) $a = \frac{5}{10} = 0,5$ m

$V = 0,5^3$

$V = 0,125\ m^2$

$V = 0,125 \cdot 1000$

$V = 1,25$ letra A

4) $1^3 = 1\ m^3$

$V = 1000 - 1 = 999L$

1m	1L
(1-x)	999L

$1000(1-x) = 999$

$1000x = 999 - 1000$

$1000x = 1$

$x = \frac{1}{1000}$

$x = 0,001$ m

6) $V_c = l^3$

$V_c = (4\sqrt{3})^3$

$V_c = 64 \cdot 3\sqrt{3}$

$V_c = 192\sqrt{3}$

$V_c = A_b \cdot h$

$V_c = \frac{(l^2 \cdot \sqrt{3}) \cdot h}{4}$

$192\sqrt{3} = \frac{[(4\sqrt{3})^2 \cdot \sqrt{3}] \cdot h}{4}$

$192\sqrt{3} = \frac{[16 \cdot 3\sqrt{3}] \cdot h}{4}$

$192\sqrt{3} = h \cdot 48\sqrt{3}$

$h = \frac{4 \cdot 192\sqrt{3}}{48\sqrt{3}}$

$h = 4 \cdot 4$

$h = 16$

$A_p = 2 \cdot A_b + A_l$

$A_p = \frac{2 \cdot [(4\sqrt{3})^2 \cdot \sqrt{3}]}{4 + 3 \cdot 16 \cdot 4\sqrt{3}}$

$A_p = \frac{2 \cdot [16 \cdot 3 \cdot \sqrt{3}]}{4 + 192\sqrt{3}}$

$A_p = \frac{2 \cdot [48\sqrt{3}]}{4 + 192\sqrt{3}}$

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

$A_p = 24\sqrt{3} + 192\sqrt{3}$

$A_p = 216\sqrt{3}\ cm^2$ letra D