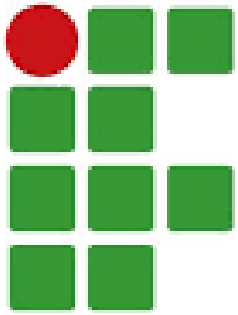

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SALA: 317

MATEMATICA

SEMANA 28

DOM SEG TER QUA QUI SEX SÁB

① $A = (n-2) \cdot 180 \rightarrow (6-2) \cdot 180 = 720$

$\frac{720}{6} = 135 \rightarrow A+B+D+E = 540 \rightarrow C \text{ e } F = 90$

$x^2 = 5^2 + 5^2$

$x^2 = 50$

$x = 5\sqrt{2}$

$A_{\square} = 5 \cdot 5\sqrt{2}$

$A_{\square} = 25\sqrt{2}$

$\text{Altura} = \frac{5 \cdot 5}{5\sqrt{2}}$

$\frac{5\sqrt{2}}{2}$

$A_{\triangle} = \frac{5\sqrt{2} \cdot \frac{5\sqrt{2}}{2}}{2} \rightarrow \frac{25}{2}$

$A = 2 \cdot \frac{25}{2} + 25\sqrt{2}$

$25 + 25\sqrt{2}$

$25(\sqrt{2}+1)$

Resposta: (E)

② $A = \frac{l^2 \cdot \sqrt{3}}{4} \rightarrow 16\sqrt{3} = \frac{l^2\sqrt{3}}{4} \rightarrow 64\sqrt{3} = l^2\sqrt{3}$

$\frac{64\sqrt{3}}{\sqrt{3}} = l^2 \rightarrow l^2 = 64 \rightarrow l = \sqrt{64} = 8$

$h = \frac{8\sqrt{3}}{2} \rightarrow h = 4\sqrt{3}$

$d = l\sqrt{2} \rightarrow 4\sqrt{3} = L\sqrt{2} \rightarrow L = \frac{4\sqrt{3}}{\sqrt{2}} = \frac{4\sqrt{6}}{2} = L = 2\sqrt{6}$

$A = l^2 \rightarrow (2\sqrt{6})^2 \rightarrow 4 \cdot 6 = \boxed{24}$

Resposta: (B)

③ $A = \frac{l^2\sqrt{3}}{4} = \boxed{\sqrt{3}}$

Resposta: (B)

④ $\frac{S_{\triangle AMN}}{S_{\triangle ABC}} = \frac{1}{4} \rightarrow S_{\triangle AMN} = \frac{1}{4} S_{\triangle ABC}$

$S_{\triangle ABC} = x + S_{\triangle AMN} \rightarrow x = S_{\triangle ABC} - S_{\triangle AMN}$

$x = 96 - \frac{1}{4} \cdot 96 \rightarrow 96 - 24 = \boxed{72\ m^2}$

Resposta: $72\ m^2$

(5) $AB = 10$, $BC = 6$

$10^2 = 6^2 + AC^2$

$100 = 36 + AC^2$

$64 = AC^2 \rightarrow AC = \sqrt{64} = 8$

$A_1 = \frac{8 \cdot 6}{2} = 4 \cdot 6 = 24$

Resposta: (A)

(6) ~~(A)~~ $4 \cdot 6 \cdot 2 = 48$

Resposta: 48