Saluma medeiros de lima - CT II 317

Áreas de polígonos

01-

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

$x^2 = 50$

$x = 5\sqrt{2}$

$\Delta ABDE = 5 \cdot 5\sqrt{2}$

$\Delta ABDE = 25\sqrt{2}$

Altura do ΔAFE:

$\frac{5.5}{5\sqrt{2}} \rightarrow \frac{5\sqrt{2}}{2}$

Área total

$A = 2(25/2) + 25\sqrt{2}$

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

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

Área do Δ

$\frac{5.\sqrt{2} \cdot \frac{5\sqrt{2}}{2}}{2} \rightarrow \frac{25}{2}$

R.E

02- Altura do Δ Diagonal do $\square$ Área do Δ

$h = l\sqrt{3}/2$

$l = 8\sqrt{3}/2$

$h = 4\sqrt{3}$

$h = d$

$d = l\sqrt{2}$

$4\sqrt{3} = l\sqrt{2}$

$l = \frac{4\sqrt{3} \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}}$

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

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

$16\sqrt{3} = \frac{l^2\sqrt{3}}{4}$

$64\sqrt{3} = l^2\sqrt{3}$

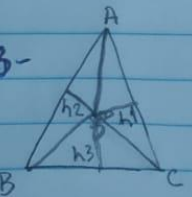
$l = \sqrt{64} \rightarrow 8$

Área do $\square$

$A = 2\sqrt{6} \cdot 2\sqrt{6} \rightarrow 4.6 = 24 m^2$

R. $24 m^2$

03-



Soma das áreas

$\frac{2h1}{2} + \frac{2h2}{2} + \frac{2h3}{2} = \frac{ABC = \sqrt{3}}{APC + APB + BPC}$

APC → 2h1/2

APB → 2h2/2

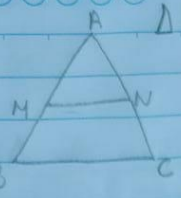
BPC → 2h3/2

$h1 + h2 + h3 = \sqrt{3}$

R. B

data
fecha

04-



$\triangle ABC \sim \triangle AMN$

$\triangle MN = \frac{1}{2} \triangle ABC$

$A_{AMN} = \frac{B}{2} \cdot \frac{h}{2} = A$

$A_{ABC} = 96 m^2$

$\triangle_{ABC} = \frac{B.h}{2} = 96$

$\triangle_{ABC} = 96.2$

$\triangle_{ABC} = 192$

$A = \frac{B.h}{4}$

$A = \frac{B.h}{4} \cdot \frac{1}{2}$

$A = \frac{B.h}{8}$

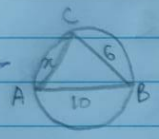
Substituindo no $\triangle AMN$

$\frac{B.h}{8} = A \rightarrow \frac{192}{8} = 24.$

$\square MNBC = 96 - 24 = 72$

R. 72

05-



$10^2 = 6^2 + x^2$

$100 - 36 \rightarrow 64$

$x = \sqrt{64} \rightarrow 8$

$A_{ABC} = \frac{6.8}{2} \rightarrow 24.$

R. 24.

06-

$A\Delta = \frac{l^2\sqrt{3}}{4} = \frac{4^2\sqrt{3}}{4} = 4\sqrt{3} \rightarrow 4\sqrt{3}^2 \rightarrow 16.3 = 48$

R. 48 cm.