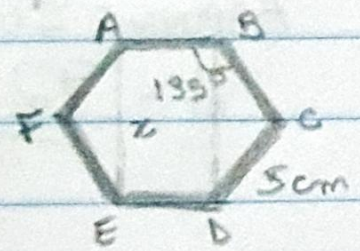
Tarefa Básica

1-) 

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

$x^2 = 25 + 25$

$x^2 = 50$

$x = 5\sqrt{2}$ cm

50	2
25	5
5	5
1	

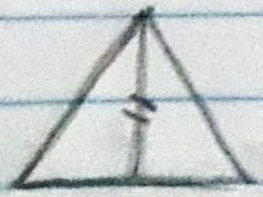
$A_{AEF} = A_{BCD} = \frac{5 \cdot 5}{2} = \frac{25}{2}$ cm²

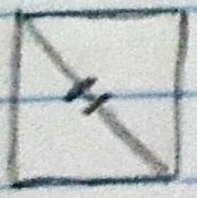
$A_{ABDE} = 5 \cdot 5\sqrt{2} = 25\sqrt{2}$ cm²

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

$A_O = 25(1 + \sqrt{2})$ cm²

(E)

2-) 



$A_\Delta = 16\sqrt{3}$ m² $= \frac{l^2\sqrt{3}}{4}$

$64 = l^2$

$l = 8$

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

$h = 4\sqrt{3}$

$d = \ell\sqrt{2} = 4\sqrt{3}$

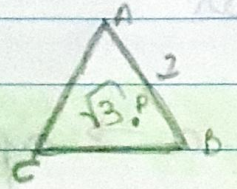
$\ell = \frac{4\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{6}}{2} = 2\sqrt{6}$ m

$A_{\square} = (2\sqrt{6})^2$

$A_{\square} = 4 \cdot 6 = 24 m^2$

(B)

3-)

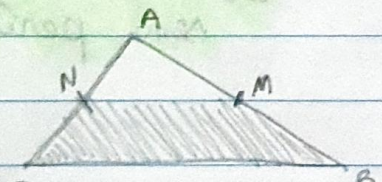


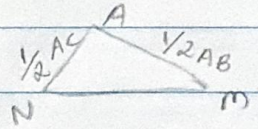
$A_{ABP} + A_{BCP} + A_{ACP} = \sqrt{3}$

$\frac{2 \cdot h_1}{2} + \frac{2h_2}{2} + \frac{2h_3}{2} = \sqrt{3}$

(B)

4-)





$A_{AMN} = 24 m^2$

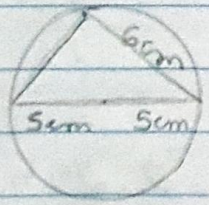
$K^2 = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$

$\frac{1}{4} \cdot 96 = 24$

$A_{BMNC} = 96 - 24$

$A = 72 m^2$

5-)



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

$100 = 64 + x^2$

$x^2 = 36$

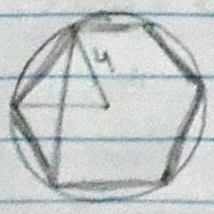
$x = 6$

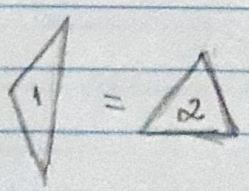
$A = \frac{6 \cdot 8}{2}$

$A = 24 cm^2$

(A)

6-)





$= \frac{\ell^2\sqrt{3}}{4} = \frac{4^2\sqrt{3}}{4} = 4\sqrt{3}$

$(4\sqrt{3})^2 = 16 \cdot 3 = 48 cm^2$