Áreas de Polígonos

01. $(n-2)180$ $(6-2)180 = 720°$ $A+B+D+E = 540°$ $C+F = 90°$

$x^2 = 5^2 + 5^2$ $x = 5(\sqrt{2})$ $ABDE = 5.5(\sqrt{2})$ $25(\sqrt{2})$ $h = \frac{5.5}{5(\sqrt{2})}$ $h = \frac{5(\sqrt{2})}{2}$ $A = \frac{5(\sqrt{2}).5(\sqrt{2})}{2}$

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

alternativa E

02. $A = \frac{(l^3.\sqrt{3})}{4}$ $16\sqrt{3} = \frac{l^2.\sqrt{3}}{4}$ $64\sqrt{3} = l^2.\sqrt{3}$ $\frac{64\sqrt{3}}{\sqrt{3}} = l^2$

$\sqrt{64} = l$ $l = 8$ $h = \frac{l\sqrt{3}}{2}$ $h = \frac{8\sqrt{3}}{2}$ $h = 4\sqrt{3}$

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

$A = l^2$ $A = (2\sqrt{6})^2$ $A = 4.6$ $A = 24\,m^2$ alternativa B

03. $A = \frac{2^2\sqrt{3}}{4} = \sqrt{3}$ $(APC) = \frac{2h_1}{2}$ $(APB) = \frac{2h_2}{2}$ $(BPC) = \frac{2h_3}{2}$

$h_1 + h_2 + h_3 = \sqrt{3}$ alternativa B

04. $MN = 1/2$ $\frac{S\Delta AMN}{S\Delta ABC} = \frac{1}{4}$ $\Delta AMN = \frac{1}{4}$ $x = 96 - \frac{1}{4}(96) \Rightarrow$

$x = 96 - 24 = 72\,m^2$

05. $AB = 10$ $\quad 10^2 = 6^2 + AC^2$ $\quad 100 = 36 + AC^2$ $\quad A = \frac{8 \cdot 6}{2}$ $\quad 4 \cdot 6 = 24 cm^2$

$BC = 6$ $\quad AC = 8$ $\quad$ alternativa A

06. $A = \frac{\ell^2 \sqrt{3}}{4}$ $\quad A = \frac{4^2 \sqrt{3}}{4}$ $\quad A = 4\sqrt{3}$ $\quad (4\sqrt{3})^2 = 16\sqrt{9}$ $\quad 16 \cdot 3 = 48 cm$