

Tarefa Básica - Polígonos  
Pedro Henrique - C111 348

1)  $\alpha_i = \frac{(n-2)}{n} \cdot 180^\circ = 150^\circ$  interno

$\alpha_e = \frac{360}{n} = 30^\circ$  externo

2)  $S_i = (n-2) \cdot 180^\circ = 3240^\circ$

3)  $\frac{(n-2) \cdot 180^\circ}{n}$

4)  $\frac{(n-2) \cdot 180^\circ}{n} = 5n(360)$

$180n - 360 = 5 \cdot 360$

$180n - 360 = 1800$

$180n = 1800 + 360$

$n = 12$

dodecágono

$$5) \quad n = 2 \left( \frac{n(n-3)}{2} \right)$$

$$n = n(n-3)$$

$$n = n^2 - 3n$$

$$4n = n^2$$

$$\textcircled{n=4}$$

$$4 \cdot n = n \cdot n$$

$$6) \quad \frac{(n-2)180}{n} = 3 \left( \frac{360}{n} \right)$$

$$180n - 360 = 1080$$

$$180n = 1440$$

$$n = 8$$

octágono  $\textcircled{c'}$