data
fecha

Tarefa básica Polígonos

Exercícios

CB3011788X
Ricardo D. Souza.

1) $S_i = (n-2) \cdot 180°$
$S_i = (12-2) \cdot 180°$
$S_i = 10 \cdot 180°$
$S_i = \frac{1800°}{12}$
$i = 150°$

$i = 150 - 180°$
$i = 30°$

O ângulo mede 150° e o externo 30°

2) $\hat{a}_i = \frac{(n-2) \cdot 180°}{n} = \hat{a}_e = \frac{360°}{n}$

$\hat{a}_i = \frac{(12-2) \cdot 180°}{12}$
$\hat{a}_i = \frac{10 \cdot 180°}{12}$
$\hat{a}_i = \frac{1800°}{12}$
$\hat{a}_i = 150°$

$\hat{a}_e = \frac{360°}{12}$
$\hat{a}_e = 30°$

data
fecha

2) $S_i = (n-2) \cdot 180^\circ$
$S_i = (20-2) \cdot 180^\circ$
$S_i = 18 \cdot 180^\circ$
$S_i = 3240^\circ$

A soma dos ângulos internos de um icoságno 3240°

3) $\hat{a}_i = (n-2) \cdot 180^\circ$
$\hat{a}_i = (14-2) \cdot 180^\circ$
$\hat{a}_i = 12 \cdot 180^\circ$
$\hat{a}_i = \frac{2160^\circ}{14}$
$\hat{a}_i \cong 154,1^\circ$

28

4) ~~$S_i = (n-2) \cdot 180^\circ$~~ $S_{\hat{a}_i} = \frac{360}{n}$

~~$S_{\hat{A}_i} =$~~

~~$S_{\hat{A}_5} = S_{\hat{A}_i}$~~

~~$\frac{360}{n} \cdot \frac{5}{1} = \frac{1800^\circ}{n}$~~

~~$\frac{1800^\circ}{n} = 180^\circ (n-2)$~~

$S(\hat{a}_i + \hat{a}_i) = 180^\circ$
$S\hat{a}_i + \hat{a}_i = 180^\circ$
$6\hat{a}_i = 180^\circ$
$\hat{a}_i = \frac{180^\circ}{6}$
$\hat{a}_i = 30^\circ$

$\hat{a}_i = \frac{360^\circ}{n}$
$30^\circ = \frac{360^\circ}{n}$
$30^\circ \cdot n = 360^\circ$
$n = \frac{360^\circ}{30^\circ}$
$n = 12$

R: Seria dodecágno.

5)

$$d = \frac{n(n-3)}{2}$$

$$\frac{n}{2} = \frac{n(n-3)}{2} \qquad n = n(n-3)$$

$$\frac{n}{n} = n-3$$

$$1 = n-3$$

$$3+1 = n$$

$$4 = n$$

06

$$3\hat{A}_i + (\hat{A}_e) = 180^\circ$$

$$3\hat{A}_i + \hat{A}_e = 180^\circ$$

$$4\hat{A}_e = 180^\circ$$

$$\hat{A}_e = \frac{180^\circ}{4}$$

$$\hat{A}_e = 45^\circ$$

$$\hat{A}_e = \frac{360^\circ}{n}$$

$$45^\circ = \frac{360^\circ}{n}$$

$$n = \frac{360^\circ}{45^\circ}$$

$$n = 8$$

a) pentágono (b) decágono (c) octógono (D) decágono (E) dodecágono