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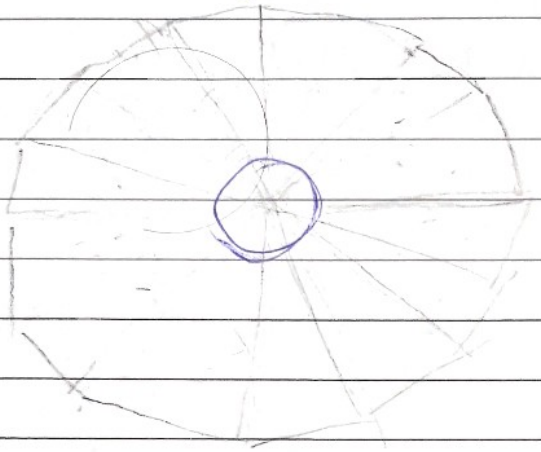
S T Q Q S S D

Nome: Vinicyus Feliciano dos Santos

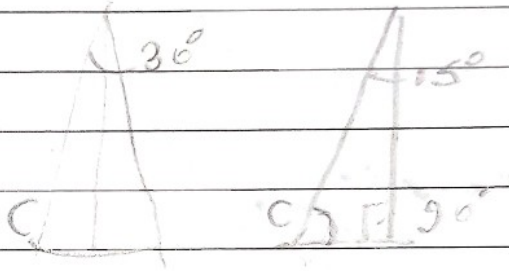
Polígonos

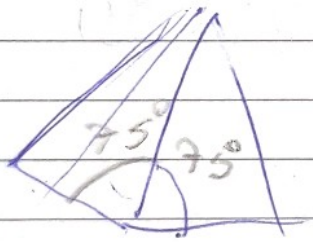
1



$A_e = \frac{360}{12}$

$A_e = 30$





$C = 180 - 105$

$C = 75°$

$Ai = 75° + 75°$

$Ai = 150°$

$A_i = \frac{180°(n-2)}{n}$

2.

$S = (n-2) \cdot 180°$

$S = (20-2) \cdot 180$

$S = 18 \cdot 180°$

$S = 3240°$

S T Q Q S S D

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3 -

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

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

$$S = \frac{(n-2) \cdot 180}{n}$$

$$\hat{S} = \frac{180^\circ \cdot (n-2)}{n}$$

4 -

$$S_i = 5 \cdot S_E$$

$$180^\circ \cdot (n-2) = 5 \cdot 360$$

$$180n - 360 = 1200$$

$$180n = 1200 + 360$$

$$180n = 2160$$

$$n = \frac{2160}{180}$$

$n = 12$ lados

Dodecágono

5-

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

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

$$2d = 4d^2 - 6d$$

$$4d^2 + 8d = 0$$

$$4d^2 - 8d = 0$$

$$\Delta = b^2 - 4ac$$

$$\Delta = 8^2 - 4 \cdot 4 \cdot 0$$

$$\Delta = 64$$

$$\frac{-b - \sqrt{\Delta}}{2a}$$

$$-\frac{8 - \sqrt{64}}{2 \cdot 4}$$

$$\frac{-8 \pm 8}{8}$$

$x_1 = 2$

$x_2 = 0$

Fator = 2 . D

Fator = 2 . 2

Fator = 4

6-

$ai = 180(n-2)/n$

$ae = 360/n$

$ai = 3ae$

$(180(n-2)/n = 3(360/n)$

$(180(n-2)/n = 1080/n$

$180(n-2) = 180$

$n - 2 = 1080/180$

$n = 6 + 2$

$n = 8$ → octógono