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EXERCÍCIOS ~~GEOMETRIA~~

17.05

01.

dodecágono = 12

$360° \mid 12$
$30°$

$\hat{A}_I + \hat{A}_E = 180°$
$\hat{A}_I + 30° = 180°$
$\hat{A}_I = 180° - 30° = 150°$ //

02.

$x = 180°(n-2)$
$x = 180°(20-2$
$x = 180° 18°$
$x = 3240°$

03.

$\frac{180°(n-2)}{n}$

04.

$x = 180°(n-2) = 5.360°$
$x = 180°(n-2) = 1800°$
$x = n - 2 = 10°$

$n = 10 + 2$
$n = 12$ ⇒ dodecágono //

05.

$l = 2.d$

$d = \frac{n(n-3)}{2} \rightarrow 2d = \frac{2d(2d-3)}{2} \rightarrow 4d = 4d^2 - 6d$
$4d^2 - 8d = 0$

$\Delta = -b^2 - 4ac$
$\Delta = -8^2 - 4.0.4$
$\Delta = 64$

$\frac{-b \pm \sqrt{\Delta}}{2a} = \frac{-8 \pm 8}{8} = \frac{8+8}{8} = \frac{16}{8} = 2$

$\frac{+8-8}{8} = 0$

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$d = 2$

$l = 2 \cdot 2$

$l = 4$ l

06.

$180°(n-2) = 3 \cdot 360°$

$180°(n-2) = 1080$

$n - 2 = \frac{1080}{180}$

$n - 2 = 6$

$n = 6 + 2$

$n = 8$ l → octógono l