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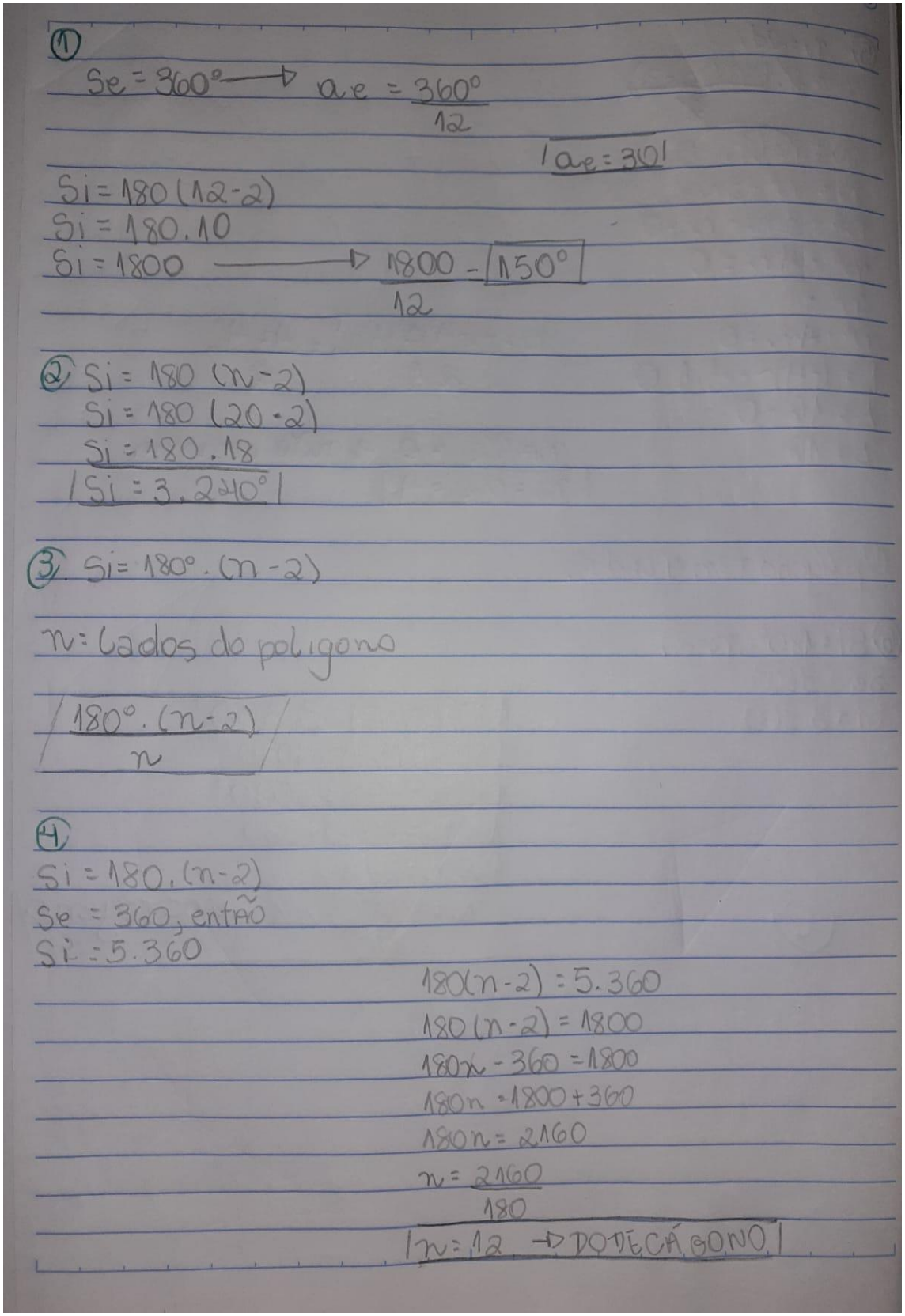
CTII348

Polígonos



⑤ $n = 2d$

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

$n = n(n-3)$

$n = n^2 - 3n$

$n^2 - 3n - n = 0$

$n^2 - 4n = 0$

$n^2 - 4n = 0$

$\Delta = (-4)^2 - 4 \cdot 1 \cdot 0$

$\Delta = 16 - 0$

$\Delta = 16$

$n = \frac{-(-4) \pm \sqrt{16}}{2 \cdot 1} = \frac{4 \pm 4}{2}$

$n_I = 0/2 = 0$ → não convem

$n_{II} = 8/2 = 4$

O polígono tem 4 Lados.

⑥ $Si = 180°(n-2)$

$Se = 360°$

$Si = 3.360°$

$180°(n-2) = 3.360°$

$180°(n-2) = 1080°$

$180n - 360 = 1080°$

$180n = 1080 + 360$

$180n = 1440$

$n = \frac{1440}{180} = 8$ → OCTOgeno

C