01

n LADOS	$n+3$ LADOS
$\frac{n(n-3)}{2}$	$\frac{(n+3)(n+3-3)}{2}$

$$\frac{(n+3)n}{2} = \frac{n(n-3)}{2} + 21$$

$$\frac{n^2+3n}{2} = \frac{n^2-3n+42}{2}$$

$$6n = 42$$

$$\boxed{n=7}$$

02

$$\frac{N_D}{\frac{n(n-3)}{2}} - N_{\angle 90} = 19$$

$$\frac{n(n-3)}{2} - 2(n-2) = 19$$

$$n^2 - 3n - 4n + 8 = 38$$

$N_{\angle 90^\circ} = 2(n-2)$
$N_{\angle 180^\circ} = n-2$

$$n^2 - 7n = 30$$

$$n.(n-7) = 30$$

$$\hookrightarrow \boxed{10}$$

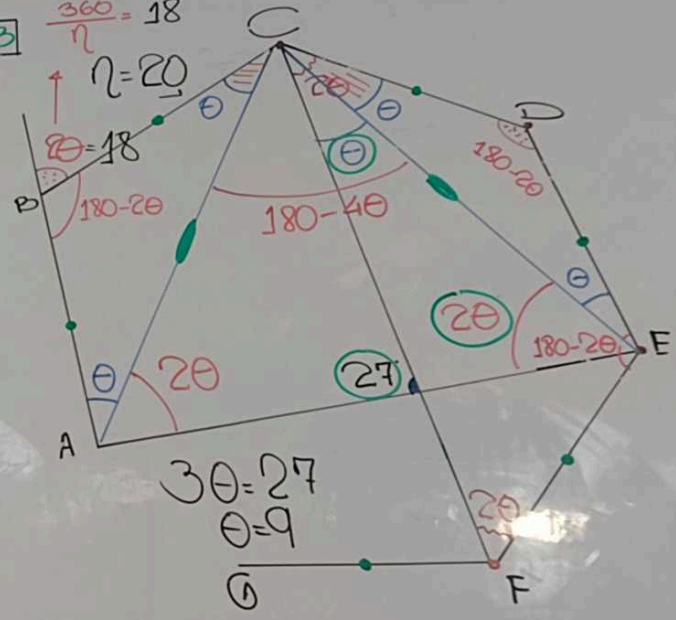
$$N_{DM} = n\frac{(n-1)}{2} = 10\frac{(9)}{2}$$

$$\boxed{45}$$

03

$$\frac{360}{n} = 18$$

$$n = 20$$



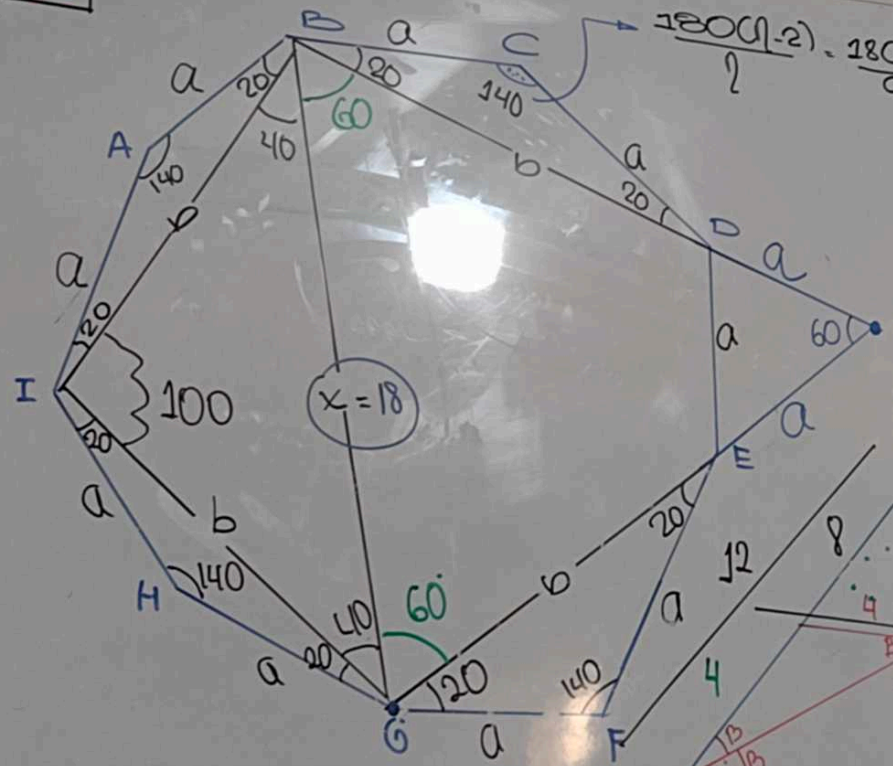
$$3\theta = 27$$

$$\theta = 9$$

04

$a+b=18$

04



$$\frac{180(n-2)}{7} - \frac{180(7)}{9} = 140$$

05

n LADOS	$2n$ LADOS
$\frac{180(n-2)}{n}$	$\frac{180(2n-2)}{2n}$

$$\frac{\overset{10}{\cancel{180}}(2n-2)}{2n} = \frac{\overset{10}{\cancel{180}}(n-2)}{n} + \overset{1}{\cancel{18}}$$

$$\frac{10(n-1)}{n} = \frac{10n-20+n}{n}$$

$$10n-10 = 10n-20+n$$

$$20-10=n$$

$$10=n$$

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

$$\frac{10(7)}{2} = 35$$

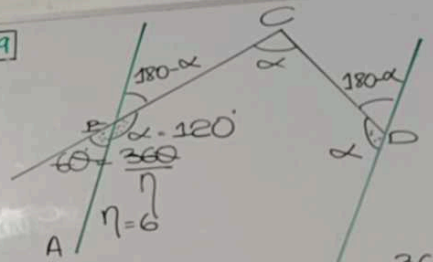
06 $N_D = 4$ Pares

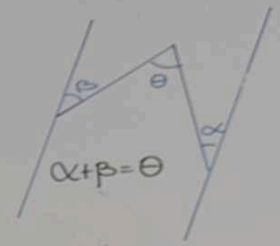
$\frac{n(n-3)}{2} = 4.4n$

$n = 35$.

	S_{int}	1_{ext}
3L	180°	60°
4L	360°	90°
5L	540°	108°
6L	720°	120°
8L	1080°	135°

09



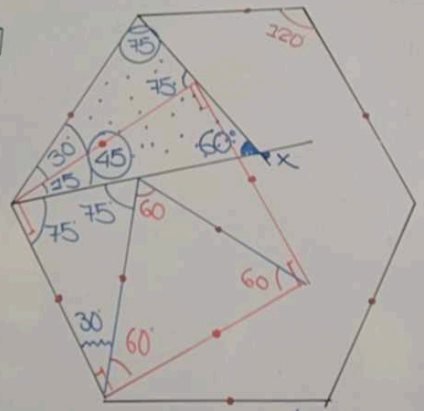


$360 - 2\alpha = \alpha$

$360 = 3\alpha$

$120 = \alpha$

07



$x = 60°$

$C_{60°} = 30°$

08

$ND_V = n - \frac{(n+1)(n+2)}{2}$

65 = 4

I) $65 = 4n - \frac{5(6)}{2}15$

$80 = 4n \rightarrow n = 20$

II) $ND_V = 20(5) - \frac{(6)(7)}{2}$

$ND_V = 79$

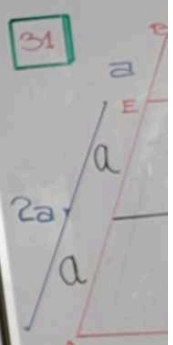
$S_{int} = 180(n-2)$

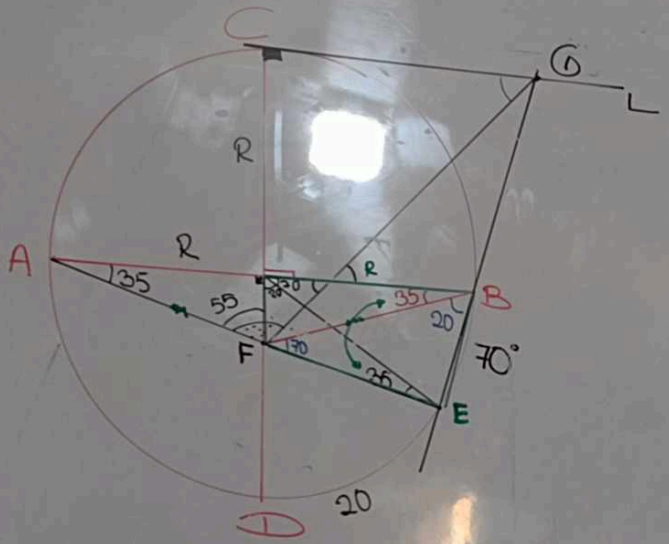
$180(6-2)$

$180(4)$

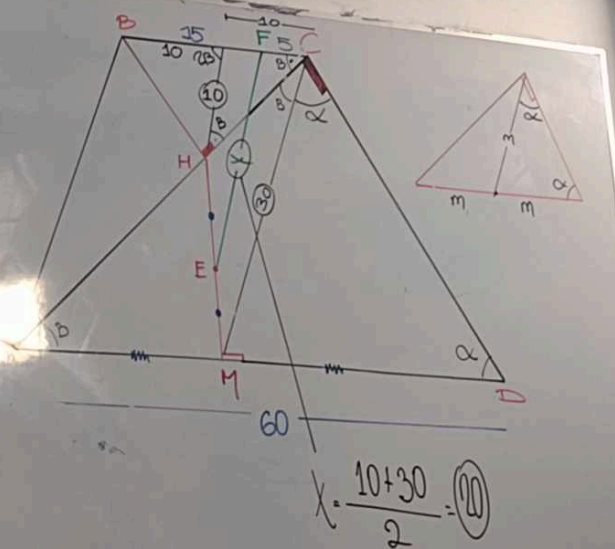
720

31





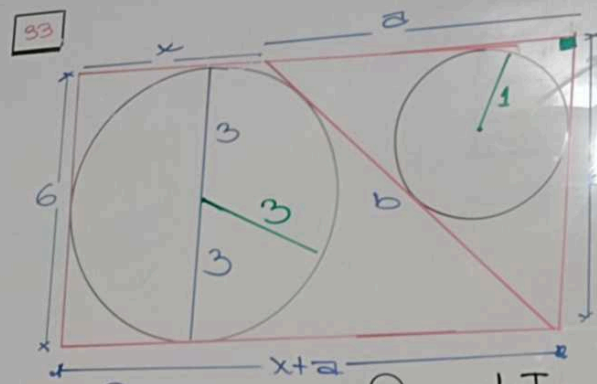
30



$x = \frac{10+30}{2} = 20$

$CS: \langle -8, -7] \cup [8, +\infty \rangle$

93



PITHOT

$6+b=2x+a$

$6+a+4=2x+a$

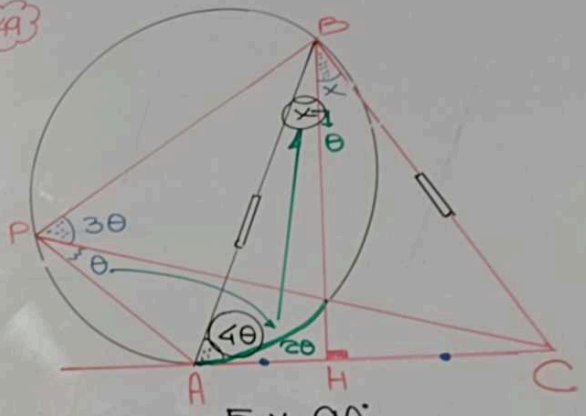
$5=x$

PONCELET

$a+6=b+2(1)$

$a+4=b$

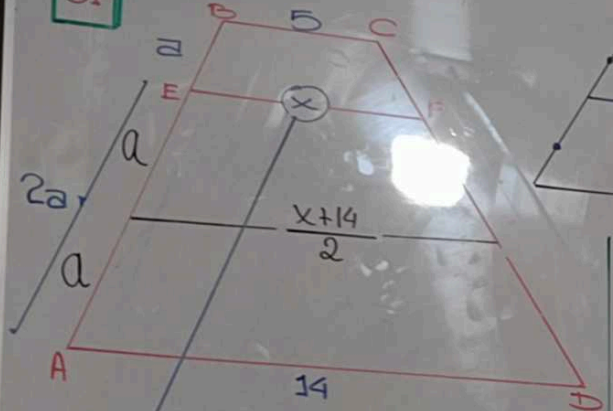
49



$5x=90^\circ$

$x=18^\circ$

31



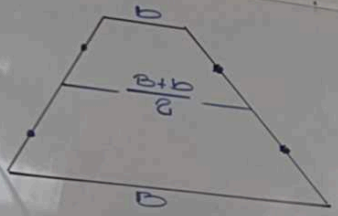
$$x = \frac{5 + \frac{x+14}{2}}{2}$$

$$2x = 5 + \frac{x+14}{2}$$

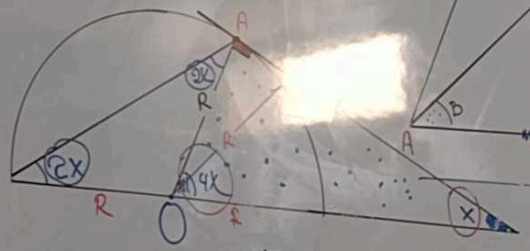
$$4x = 10 + x + 14$$

$$3x = 24$$

$$x = 8$$



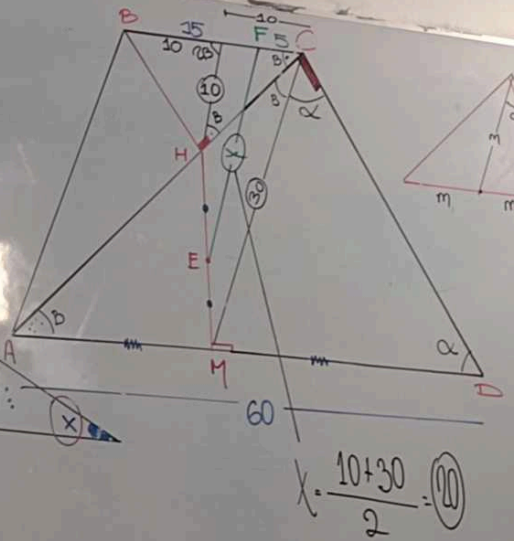
32



$$5x = 90$$

$$x = 18°$$

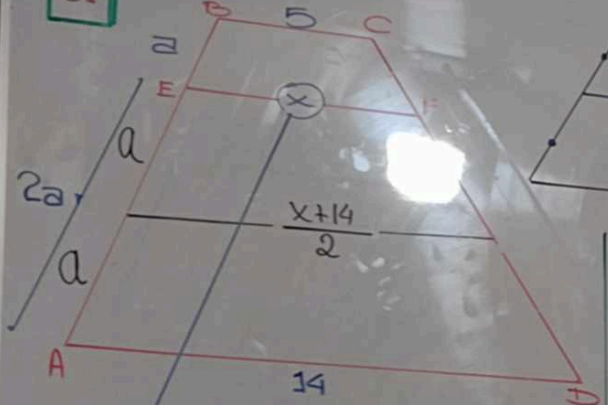
30



$$x = \frac{10+30}{2} = 20$$

CS: $\langle -8, -1] \cup [8, \ldots$

31



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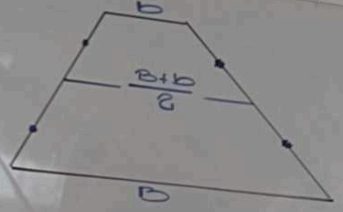
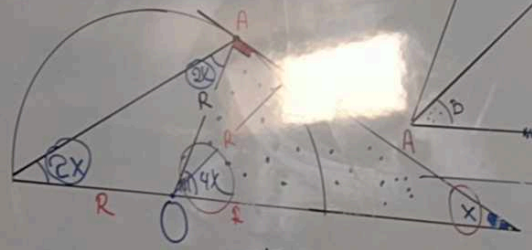


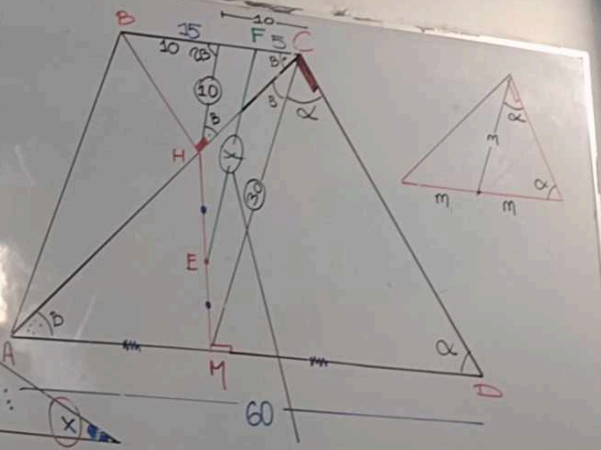
38



$$5x = 90$$

$$x = 18°$$

30



$$x = \frac{10+30}{2} = 20$$

$CS = \langle -8, -1] \cup [8, +\infty \rangle$