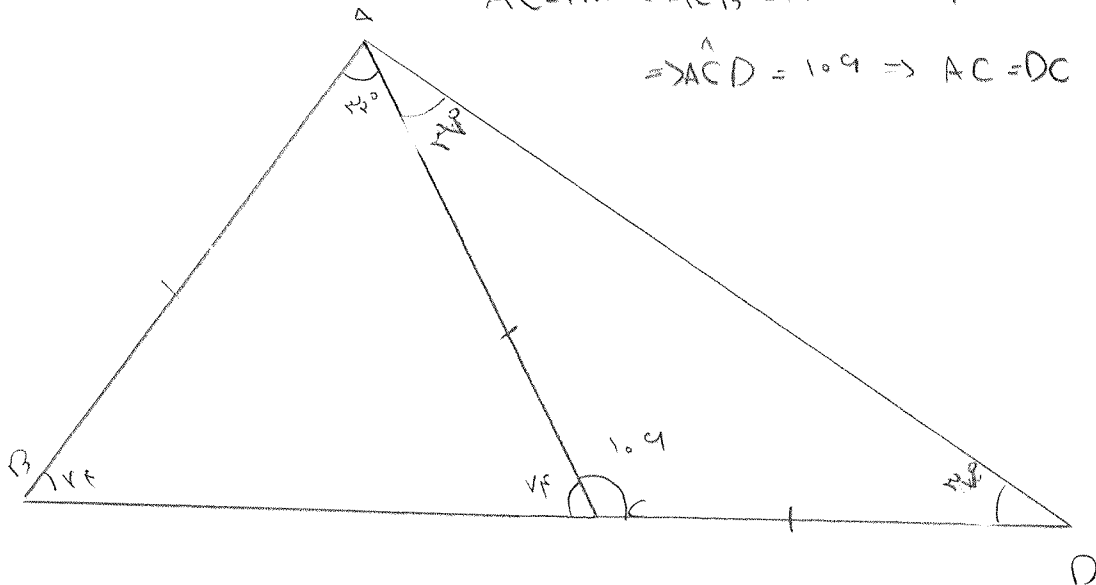


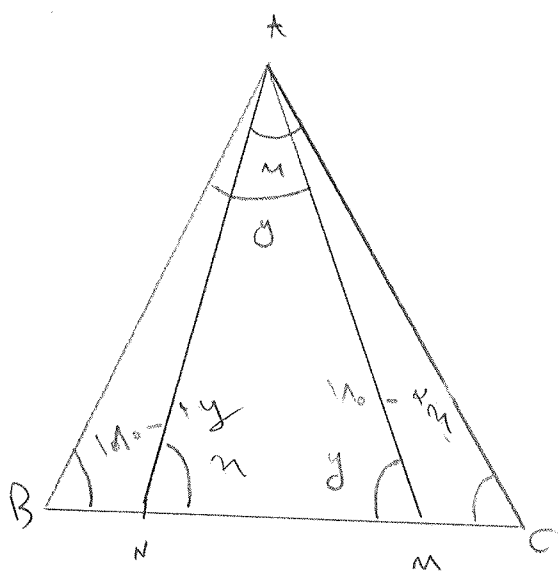
VC
21

$$AC = AB = \hat{ACB} = \hat{ABC} = \nu \rho^\circ$$

$$\Rightarrow \hat{ACD} = 109 \Rightarrow AC = DC = \hat{CAD} = \hat{CDA} = \nu \rho^\circ$$



(1)



$$180 - (\nu \rho^\circ + \nu \rho^\circ + \alpha) = \nu \rho^\circ$$

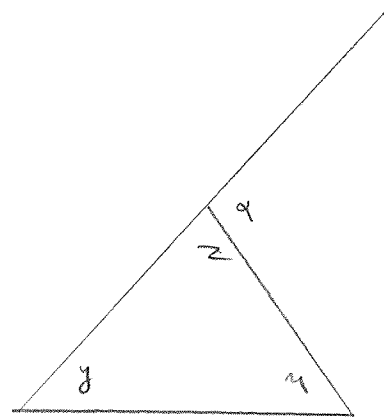
$$\Rightarrow 180 + \nu \rho^\circ = \nu \rho^\circ + \alpha$$

$$\Rightarrow \alpha = 180 - \nu \rho^\circ$$

$$\Rightarrow \alpha = 180 - \nu \rho^\circ$$

$$\hat{MAN} = 180 - (\nu \rho^\circ + \nu \rho^\circ) = 180 - 2\nu \rho^\circ = \alpha^\circ$$

(2)



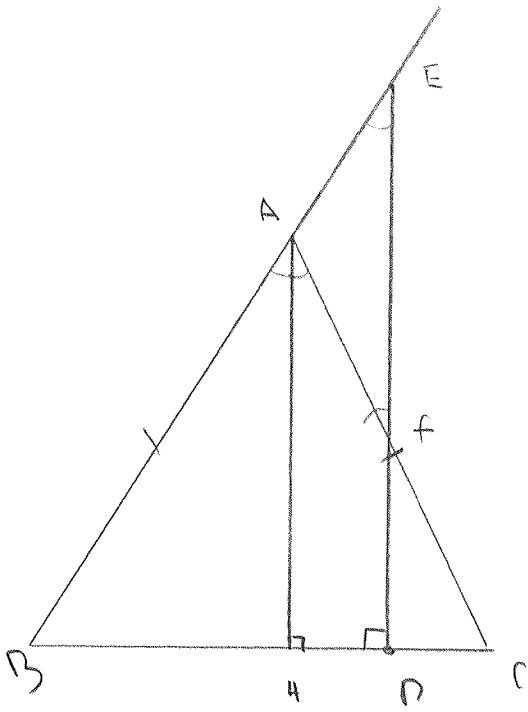
$$\alpha = 180 - 2$$

$$z = 180 - (\nu \rho^\circ + \nu \rho^\circ)$$

$$= \alpha = 180 - 180 + (\nu \rho^\circ + \nu \rho^\circ)$$

$$\Rightarrow \alpha = \nu \rho^\circ + \nu \rho^\circ$$

(3)



$AB = AC$ كل قوسين متساويين \Rightarrow $\hat{BAH} = \hat{CAH}$ (1) الزاوية
 AH ارتفاع

$AH \perp BC \Rightarrow AH \parallel DE$ سببوا

$ED \perp BC$

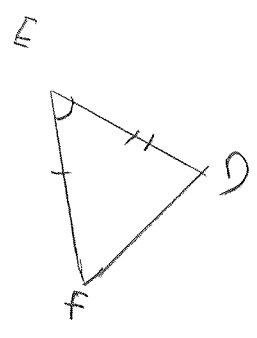
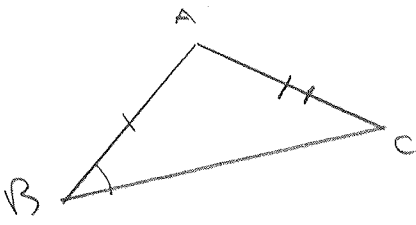
$\Rightarrow \hat{CFD} = \hat{CAH} = \hat{EFA}$ (2)

$\Rightarrow \hat{CAH} = \hat{BAH}$ (3)

$\Rightarrow AH \parallel ED \Rightarrow \hat{BAH} = \hat{BED}$

$= \hat{BED} = \hat{AFE}$ (4)

\Rightarrow كل قوسين متساويين $\Rightarrow AE = AF$



(5)