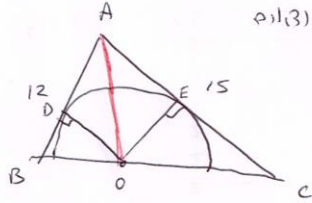


0.5
6 (10)



$\widehat{AD} = \widehat{AE}$ } $\widehat{AED} = \widehat{AOD}$
 $\widehat{OD} = \widehat{OE}$ } $\widehat{AOD} = \widehat{AOE}$
 $\widehat{AED} = \widehat{AOE}$

$$\frac{AB}{AC} = \frac{BO}{OC}$$

$$\frac{12}{15} = \frac{x}{18-x} \rightarrow \boxed{x=8}$$

(7) $\widehat{AD} = \widehat{BD}$ (1,1)
 (7,1,1) $\angle FAB = \angle DCB = \frac{1}{2} \angle C = \alpha$

(1,1) $\angle B = \angle C = 2\alpha$

$$\angle B = \angle FAB + \angle E$$

$$2\alpha = \alpha + \angle E$$

$$\angle E = \alpha = 20^\circ$$

$$\Rightarrow \boxed{\angle C = 40^\circ}$$