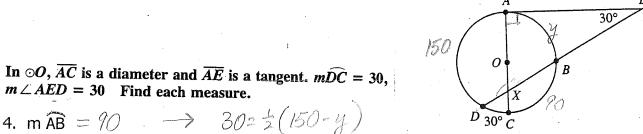
Section - Problems Angles of Chords Name: \_\_\_\_\_\_\_

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Secants, and Pangents the



A diameter  $\overline{AB}$  and a chord  $\overline{CD}$  intersect inside  $\odot O$  at X. If  $\widehat{mAD} = 128$  and  $m \angle AXD = 74$ , find each measure.





$$m \angle AED = 30$$
 Find each measure.

5. m 
$$\overrightarrow{BC} = 90$$

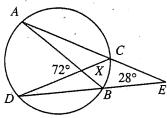
6. 
$$m\angle AXD = \frac{1}{2}(150+90) = 120$$



7. Given 
$$m \angle AXD = 72$$
,  $m \angle AED = 28$ 

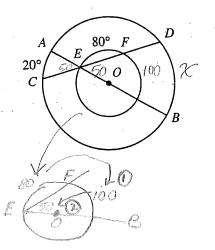
Find  $m\widehat{AD}$  and  $m\widehat{CB}$ . Let M

$$\frac{72 = \frac{1}{2} \left( m + n \right)}{72 = \frac{1}{2} \left( m + n \right)} \rightarrow 144 = m + n$$





8. Given concentric circles centered at O.  $\overline{AB}$  and  $\overline{CD}$  are chords of the large circle that intersect at point E on the small circle.  $m\widehat{EF} = 80$ ,  $m\widehat{AC} = 20$  Find  $m\widehat{BD}$ .



 $\odot m{O}$  is tangent to  $\odot m{B}$  at point  $m{A}$  .  $\overline{m{G}m{A}}$  is tangent to both circles at A and  $\overline{CD}$ is tangent to  $\bigcirc O$  at B.  $\overline{GA} \parallel \overline{CD}$ ,  $\longrightarrow \widehat{AD} \cong \widehat{AC}$  $m \angle AGB = 42$ 

$$AD = AC = 90$$

9. Find m  $\widehat{AH} = /32$ (90 + 42)

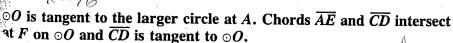
10. Find m  $\widehat{AF} = 48$ 

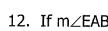
138-90=48

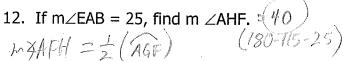


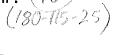
11. Find m  $\widehat{AE} = \chi = 96$  exclosion method 42= 立((360-84-火)-火)

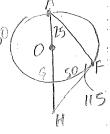
$$7\lambda = 2((360 - 84 - x) - x)$$
  
 $84 = 276 - 2x$ 





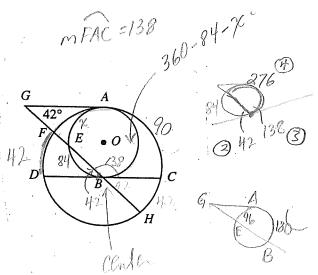






13. If m
$$\angle$$
DFE = 65, find m  $\angle$ BAE = (25)

14. If m $\angle$ DFE = 65, find m BE. 250



mGF = 50

