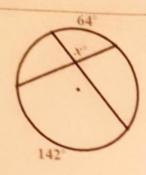
RELATED ANGLES FROM INSCRIBED ANGLES

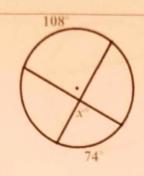
#1-10, x° is formed by the intersection of two chords. Use an auxiliary line and inscribed angles to we for x.

$$m \angle x = \frac{1}{2}(Arc + Arc)$$



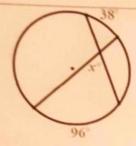
$$X = \frac{142 + 64}{2}$$

 $X = \frac{206}{2} = 103^{\circ}$

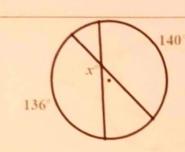


$$X = \frac{108 + 74}{2}$$

 $X = \frac{182}{2} = 910$



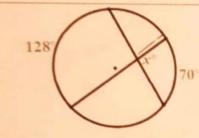
$$X = 96+38$$
 $X = 134 = 670$



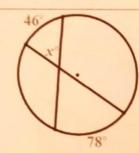
$$X = 136 + 140$$

$$Z$$

$$X = 276 = 1380$$

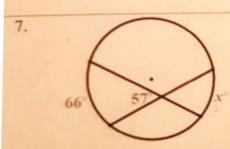


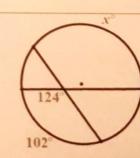
$$X = 128 + 70$$
 $Z = 198 = 990$

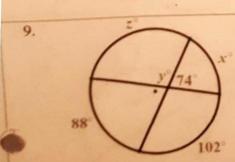


$$X = 4\frac{6+78}{2}$$

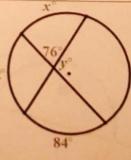
 $X = 124 = 62^{\circ}$



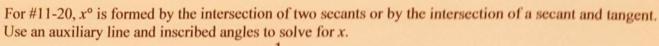




10.



2=360-(82+84+68)



$$m \angle x = \frac{1}{2} (Big Arc - Small Arc)$$

