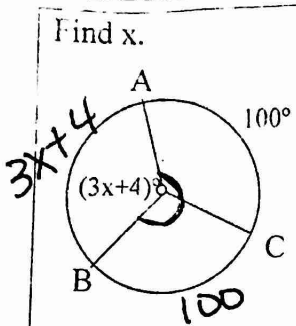
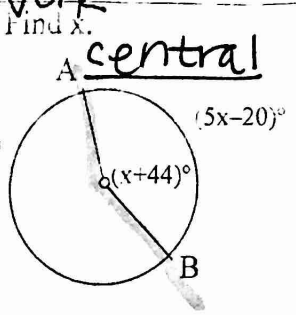


Homework



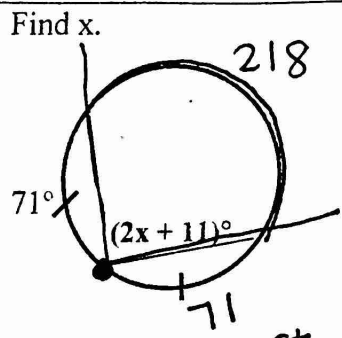
central
 $100 + 100 + 3x + 4 = 360$



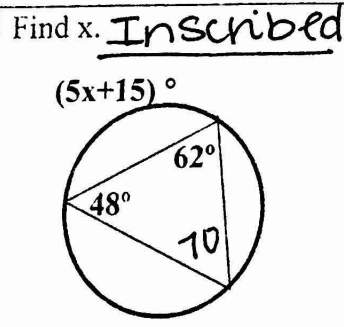
central
 $x + 44 = 5x - 20$
 $-x + 20 \quad -x + 20$

$$64 = 4x$$

$$\boxed{16 = x}$$



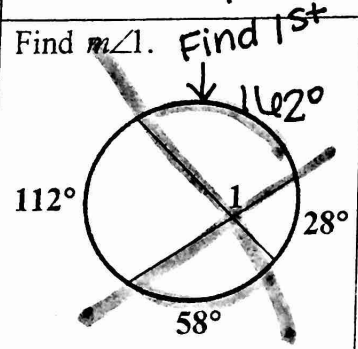
Inscribed
 $2x + 11 = \frac{1}{2} (218)$
 $2x + 11 = 109$
 $2x = 98$
 $\boxed{x = 49}$



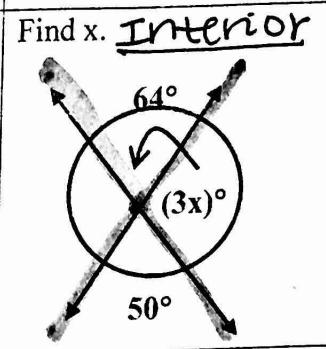
$$70 = \frac{1}{2} (5x + 15)$$

$$140 = 5x + 15$$

$$\boxed{x = 25}$$



Interior
 $m\angle 1 = \frac{\text{arc} + \text{arc}}{2}$
 $m\angle 1 = \frac{162 + 58}{2}$
 $\boxed{m\angle 1 = 110}$

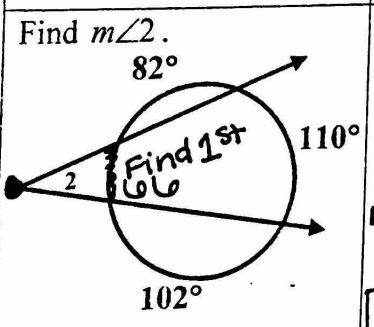


angle = $\frac{\text{arc} + \text{arc}}{2}$

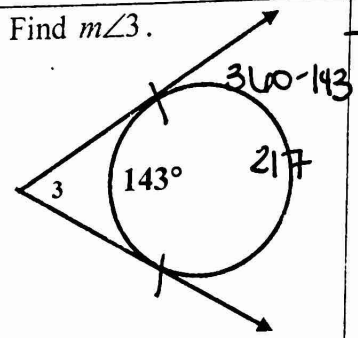
$$3x = \frac{64 + 50}{2}$$

$$3x = 57$$

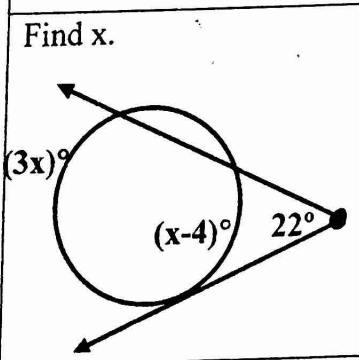
$$\boxed{x = 19}$$



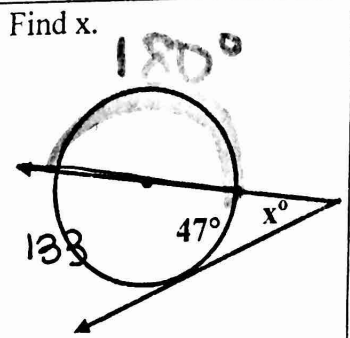
Exterior
 $m\angle 2 = \frac{\text{Big} - \text{Little}}{2}$
 $m\angle 2 = \frac{110 - 66}{2}$
 $\boxed{m\angle 2 = 22}$



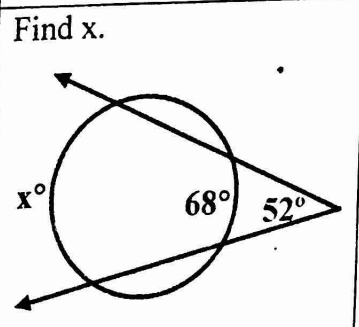
Exterior
 $m\angle 3 = \frac{217 - 143}{2}$
 $\boxed{m\angle 3 = 37}$



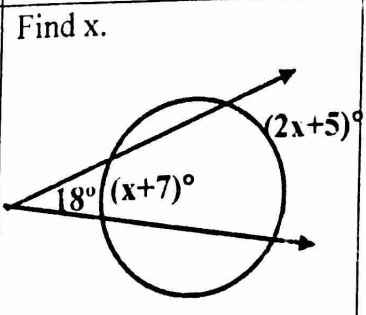
Exterior
 angle = $\frac{\text{Big} - \text{Little}}{2}$
 $22 = \frac{3x - (x - 4)}{2}$
 $22 = \frac{2x + 4}{2}$
 $\boxed{x = 20}$



Exterior
 $x = \frac{133 - 47}{2}$
 $\boxed{x = 43}$



Exterior
 $52 = \frac{x - 68}{2}$
 $104 = x - 68$
 $\boxed{x = 172}$



Exterior
 $18 = \frac{(2x + 5) - (x + 7)}{2}$
 $36 = 2x + 5 - x - 7$
 $36 = x - 2$
 $\boxed{x = 38}$