

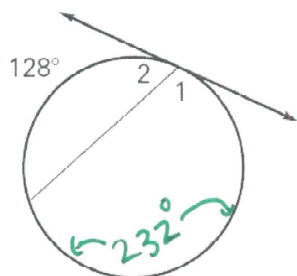
# 10.5

NAME Key DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

## Skills Practice

### Secants, Tangents, and Angle Measures

1.

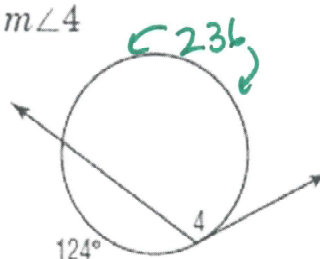


$$\angle 2 = \frac{1}{2}(128) = \boxed{64^\circ}$$

$$\angle 1 = \frac{1}{2}(360 - 128)$$

$$\frac{1}{2}(232^\circ) = \boxed{116^\circ}$$

2.  $m\angle 4$



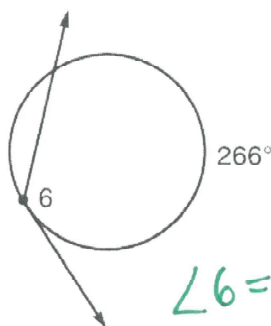
$$\begin{array}{r} 360 \\ -124 \\ \hline 236 \end{array}$$

$$\angle 4 = \frac{1}{2}(360 - 124)$$

$$= \frac{1}{2}(236)$$

$$= \boxed{118^\circ}$$

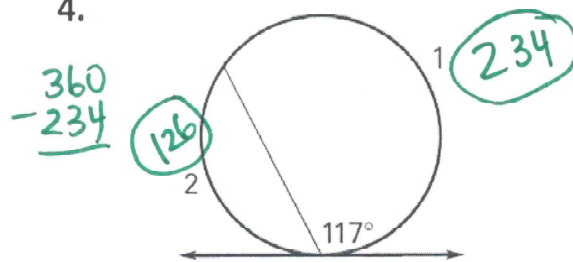
3.  $m\angle 6$



$$\angle 6 = \frac{1}{2}(266)$$

$$= \boxed{133^\circ}$$

4.

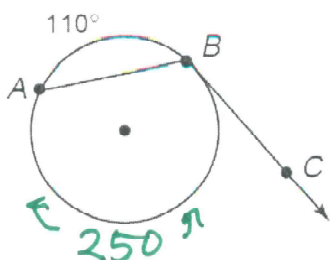


$$\begin{array}{r} 360 \\ -234 \\ \hline 126 \end{array}$$

$$\text{arc } 1 = 2(117) = \boxed{234^\circ}$$

$$\text{arc } 2 = 360 - 234 = \boxed{126^\circ}$$

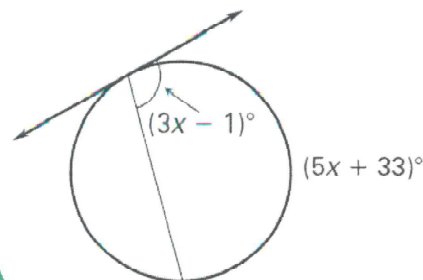
5.  $\angle ABC$



$$\begin{array}{r} 360 \\ -110 \\ \hline 250 \end{array}$$

$$\angle ABC = \frac{1}{2}(250) = \boxed{125^\circ}$$

6.



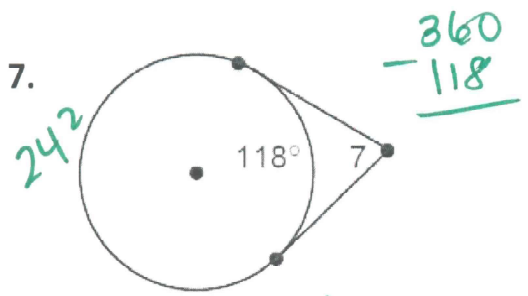
$$2 \cdot (3x - 1) = \frac{1}{2}(5x + 33) \cdot 2$$

$$6x - 2 = 5x + 33$$

$$\begin{array}{r} -5x \\ -2 \\ \hline x - 2 = 33 \end{array}$$

$$\begin{array}{r} +2 \\ +2 \\ \hline x = 35 \end{array}$$

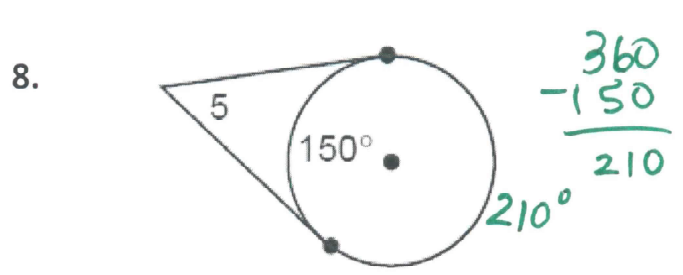
$$\boxed{x = 35}$$



$$L = \frac{1}{2}(B - L)$$

$$L = \frac{1}{2}(242 - 118)$$

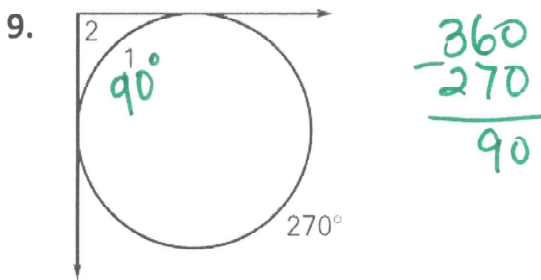
$$L = \frac{1}{2}(124) = 62^\circ$$



$$L = \frac{1}{2}(\text{big} - \text{little})$$

$$L = \frac{1}{2}(210 - 150)$$

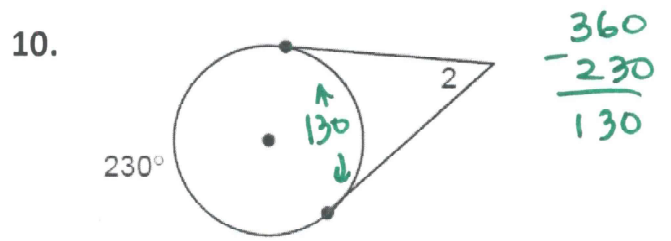
$$L = \frac{1}{2}(60) = 30^\circ$$



$$L = \frac{1}{2}(\text{Big} - \text{little})$$

$$L = \frac{1}{2}(270 - 90)$$

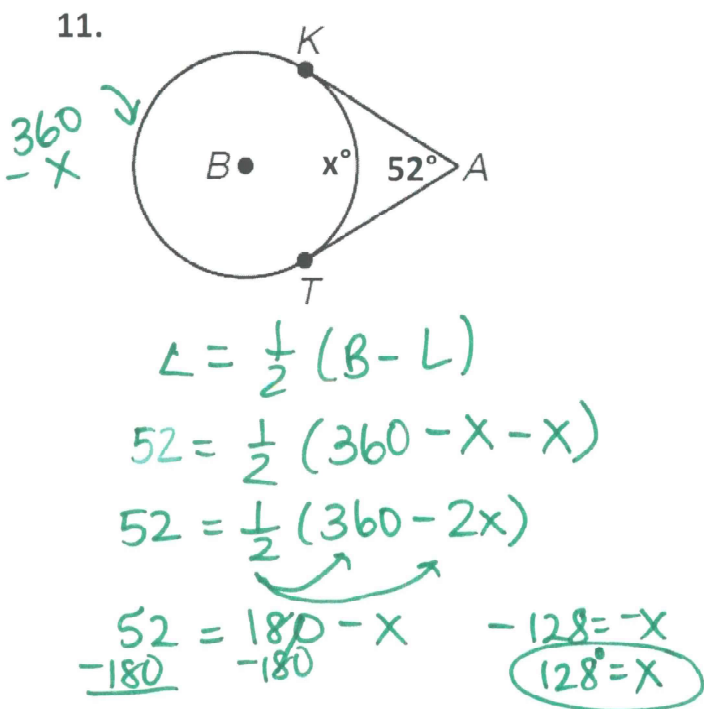
$$\frac{1}{2}(180) = 90^\circ$$



$$L = \frac{1}{2}(\text{big} - \text{little})$$

$$\frac{1}{2}(230 - 130)$$

$$= \frac{1}{2}(100) = 50^\circ$$



$$L = \frac{1}{2}(B - L)$$

$$52 = \frac{1}{2}(360 - x - x)$$

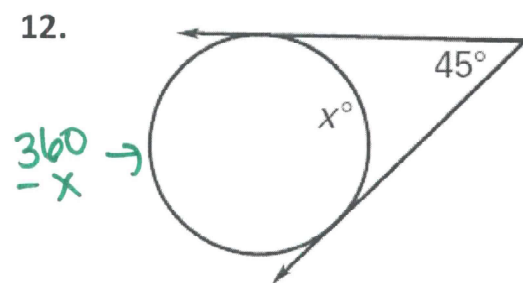
$$52 = \frac{1}{2}(360 - 2x)$$

$$52 = 180 - x$$

$$-180 \quad -180$$

$$-128 = -x$$

$$128 = x$$



$$L = \frac{1}{2}(\text{big} - \text{little})$$

$$45 = \frac{1}{2}(360 - x - x)$$

$$45 = \frac{1}{2}(360 - 2x)$$

$$45 = 180 - x$$

$$-180 \quad -180$$

$$-135 = -x$$

$$x = 135^\circ$$