Name: **AK**

10.1-10.4 Circles Review
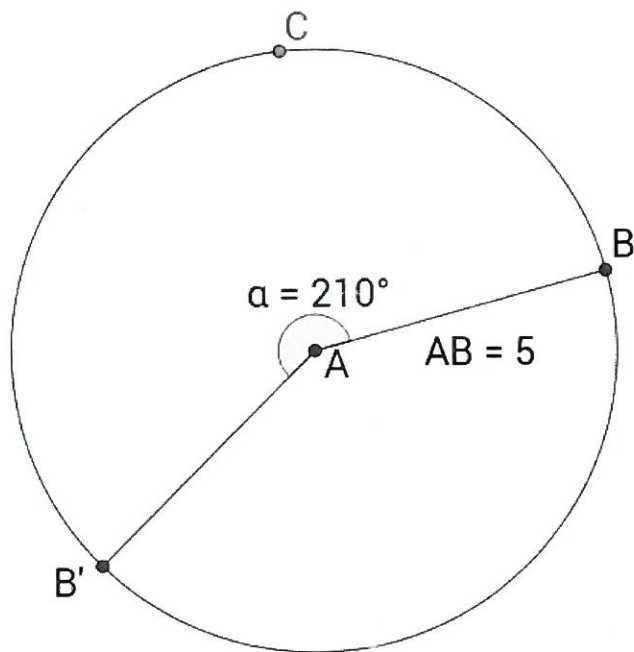
1.

Find the lettered angle and arc measures. $\vec{AT}$ and $\vec{AZ}$ are tangents.

$a = \underline{50°}$ $\qquad$ $b = \underline{50°}$ $\qquad$ $c = \underline{80°}$

$d = \underline{50°}$ $\qquad$ $e = \underline{130°}$ $\qquad$ $f = \underline{90°}$

$g = \underline{50°}$ $\qquad$ $h = \underline{50°}$ $\qquad$ $j = \underline{90°}$

$k = \underline{40°}$ $\qquad$ $m = \underline{80°}$ $\qquad$ $n = \underline{50°}$
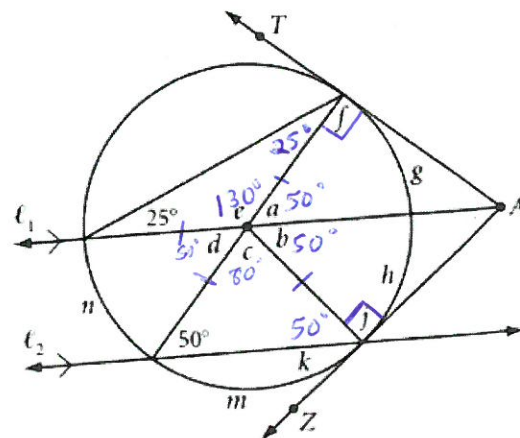
2. Find the arc length of arc BCB'.

C

B

a = 210°

A   AB = 5

B'

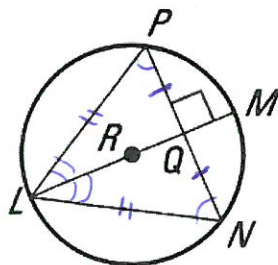$$\frac{7}{12} \frac{210}{360} = \frac{x}{10\pi}$$

$$12x = \frac{70\pi}{12}$$
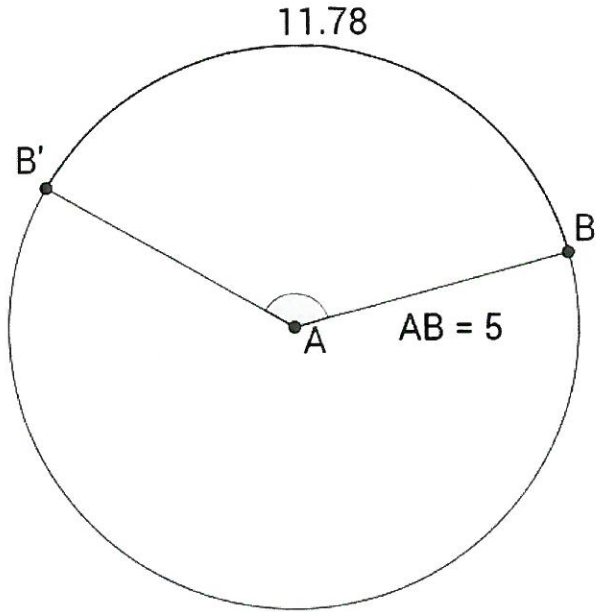$$\frac{}{12} \quad \frac{}{12}$$

$$x = \frac{35\pi}{6}$$

3.

Multiple Choice In the diagram of ⊙R, which congruence relation is not necessarily true?

(A) $\overline{PQ} \cong \overline{QN}$

(B) $\overline{NL} \cong \overline{LP}$

(C) $\overparen{MN} \cong \overparen{MP}$

(D) $\overline{PN} \cong \overline{PL}$

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4. Find the measure of angle BAB' in degrees.

11.78

B'

B

A   AB = 5
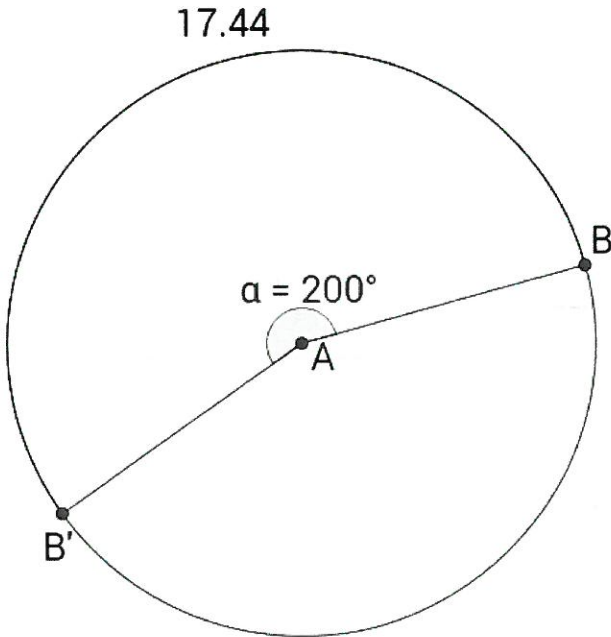
$$\frac{X}{360°} = \frac{11.78}{10\pi}$$

$$\frac{10\pi x}{10\pi} = \frac{11.78(360)}{10\pi}$$

$$X = 135$$

$$X = 225°$$

5. Find the length of radius AB.

17.44

a = 200°

A

B

B'

$$\frac{5}{9} \cdot \frac{200}{360} = \frac{17.44}{C}$$

$$5C = 156.96$$

$$C = 31.392 = D\pi$$

$$10 = D$$

$$5 = R$$

The radius of ⊙N is 18, NK = 9, and mDE = 120. Find each measure.

7. mGE

60°

8. m∠HNE

60°

9. m∠HEN

30°

10. HN

9