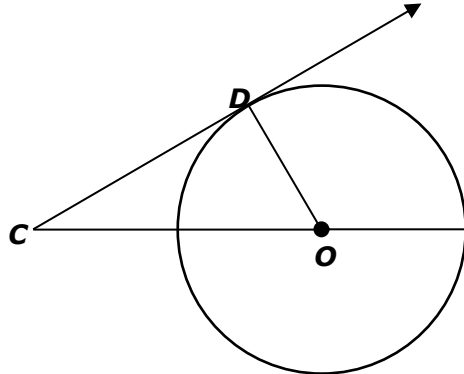




Angle Relationships in Circles

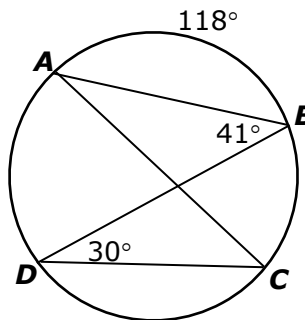
Lesson Quiz

- 1 \overline{CD} is tangent to $\odot O$ at point D . Which of the following is true?



- A $\angle DCO \cong \angle DOC$
- B $\triangle CDO$ is a right triangle.
- C $m\angle COD = 60^\circ$.
- D $\overline{CD} \cong \overline{CO}$

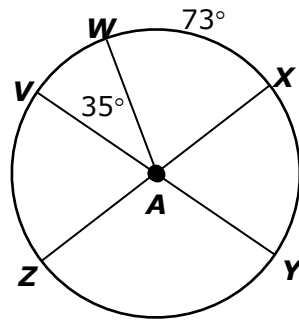
- 2 What is $m\widehat{DC}$?



- A 100°
- B 82°
- C 118°
- D 71°

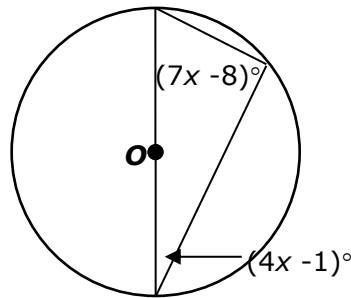


3 What is $m\widehat{VZ}$ of $\odot A$ if \overline{XZ} is a diameter of $\odot A$?



- A 70°
- B 73°
- C 72°
- D 36°

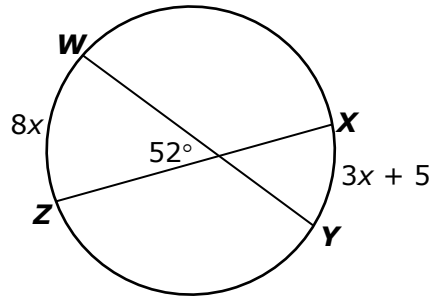
4 What is the value of x ?



- A $x = 27$
- B $x = 14$
- C $x = 2$
- D $x = 7$

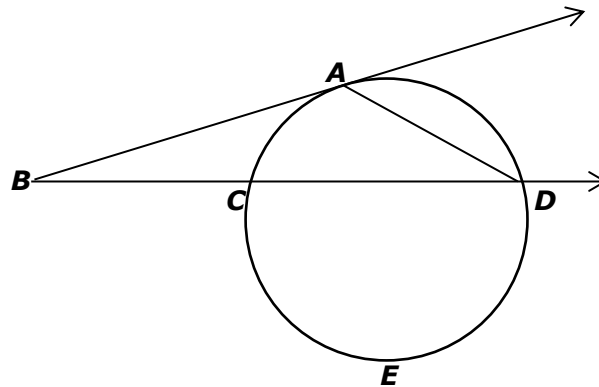


5 Which equation can be used to find $m\widehat{XY}$?



- A $8x = \frac{1}{2}(52 + (3x + 5))$
- B $3x + 5 = \frac{1}{2}(52 + 8x)$
- C $52 = \frac{1}{2}(8x + (3x + 5))$
- D $52 = \frac{1}{2}(8x - (3x + 5))$

6 In the figure below, $m\widehat{CED} = 215^\circ$, $m\widehat{AD} = 110^\circ$ and $m\angle BAD = 135^\circ$

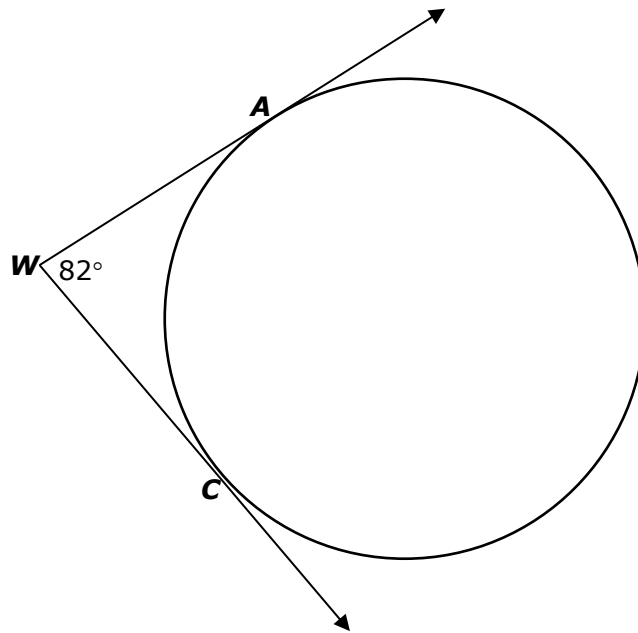


What is $m\angle ABC$?

- A 72.5°
- B 80°
- C 27.5°
- D 37.5°

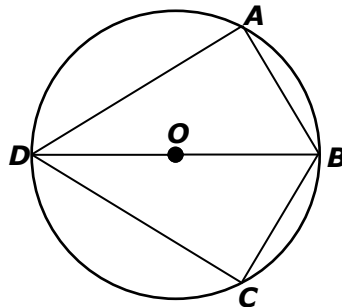


7 What is $m\widehat{AC}$ if $m\angle AWC = 82^\circ$ and \overline{WA} and \overline{WC} are both tangents to the circle shown?



- A 98°
- B 164°
- C 139°
- D 262°

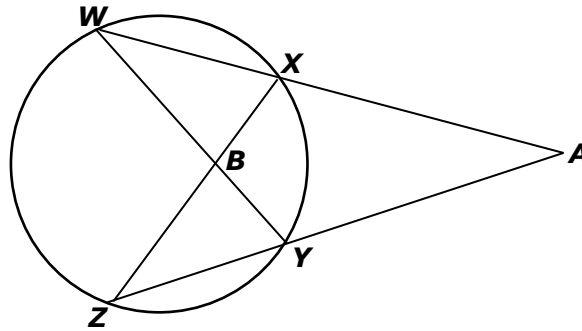
8 Quadrilateral $ABCD$ is inscribed in $\odot O$ and \overline{BD} is a diameter. Which two angles are congruent?



- A $\angle BAD \cong \angle ABC$
- B $\angle ABC \cong \angle ADB$
- C $\angle DCB \cong \angle BDA$
- D $\angle DAB \cong \angle BCD$



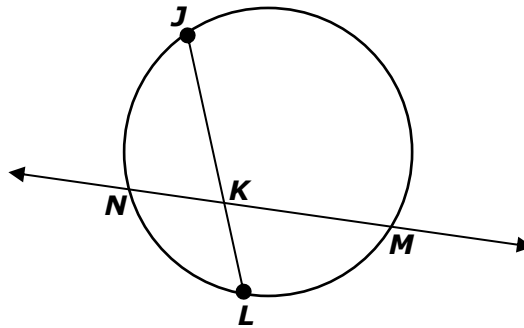
- 9 In the diagram below, $m\angle XAY = 33^\circ$ and $m\angle WBZ = 74^\circ$.



What is $m\angle XY$?

- A 66°
- B 41°
- C 37°
- D 54°

- 10 Which expression can be used to find $m\angle MKL$?



- A $2(m\widehat{NL} + m\widehat{LM})$
- B $2(m\widehat{LM} + m\widehat{NJ})$
- C $\frac{1}{2}(m\widehat{LM} - m\widehat{JN})$
- D $\frac{1}{2}(m\widehat{LM} + m\widehat{JN})$

