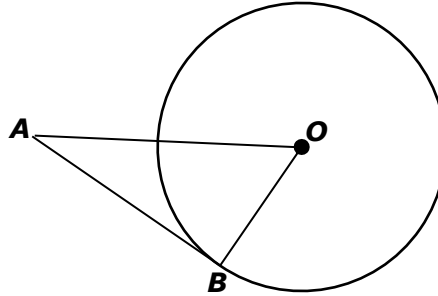




Angle Relationships in Circles

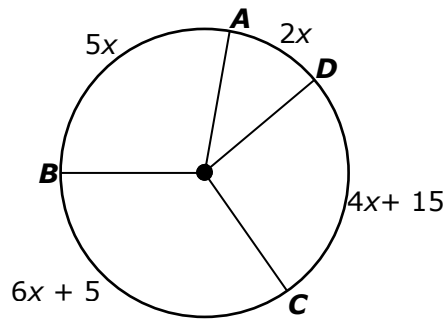
Evaluate – Answer Key

- 1 If \overline{AB} is a tangent to $\odot O$ and $m\angle OAB = 32^\circ$, what is $m\angle AOB$?



- A 32°
- B 58°**
- C 64°
- D 90°

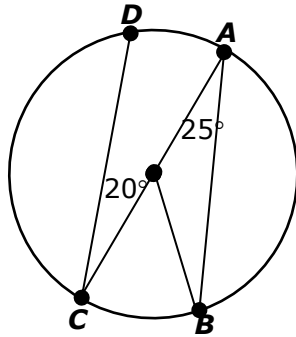
- 2 What is $m\widehat{DC}$?



- A 40°
- B 105°**
- C 95°
- D 90°



3 For circle O , arrange the arcs in order from shortest arc to longest arc.



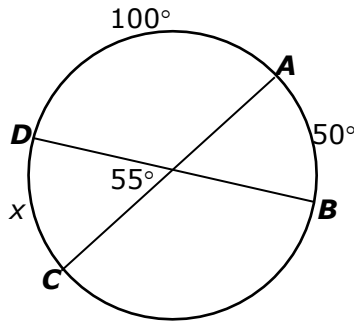
A $\widehat{AD}, \widehat{BC}, \widehat{AB}, \widehat{CD}$

B $\widehat{BC}, \widehat{AD}, \widehat{AB}, \widehat{CD}$

C $\widehat{AD}, \widehat{BC}, \widehat{CD}, \widehat{AB}$

D $\widehat{BC}, \widehat{AD}, \widehat{CD}, \widehat{AB}$

4 Which equation can be used to find $m\widehat{CD}$?



A $x = (50 + 55)$

B $50 = \frac{1}{2}(x + 55)$

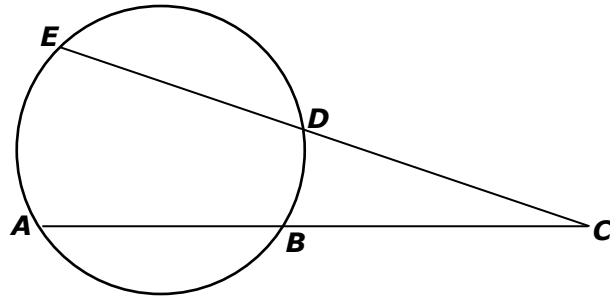


C $55 = \frac{1}{2}(x + 50)$

D $x = \frac{1}{2}(55 - 50)$




5 Which expression can be used to find $m\angle C$?



A $2(m\widehat{AE} - m\widehat{BD})$

B $2(m\widehat{AE} + m\widehat{BD})$

C $\frac{m\widehat{BD} - m\widehat{AE}}{2}$

 D $\frac{m\widehat{AE} - m\widehat{BD}}{2}$

