Geometry Practice: G.G.51 #1

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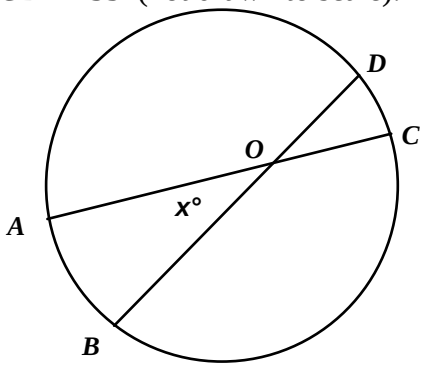
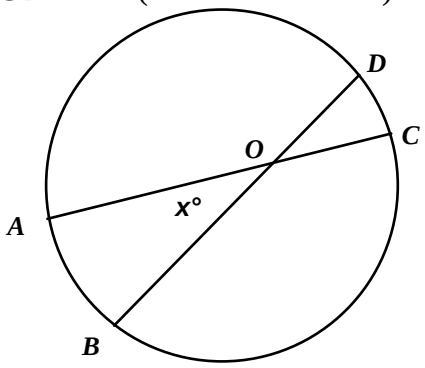
NAME:_____

G.G.51: Investigate, justify, and apply theorems about the arcs determined by the rays of angles formed by two lines intersecting a circle when the vertex is: inside the circle (two chords); on the circle (tangent and chord); outside the circle (two tangents, two secants, or tangent and secant)

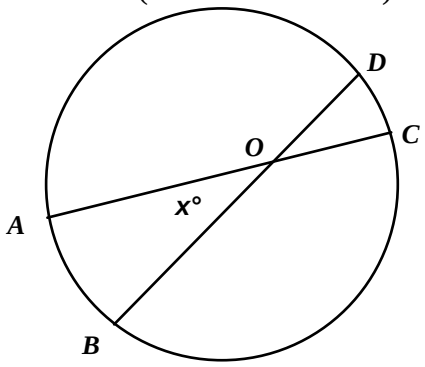
1. Find the value of x if $m\overset{\frown}{AB} = 44$ and $m\overset{\frown}{CD} = 53$ (not drawn to scale).



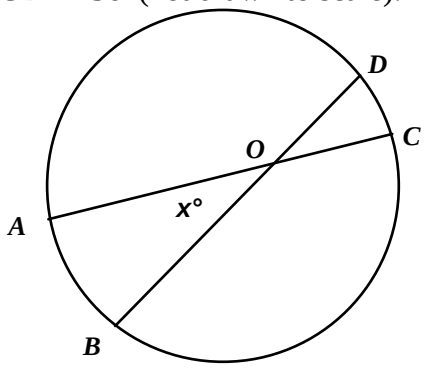
2. Find the value of x if $m\overset{\frown}{AB} = 59$ and $m\overset{\frown}{CD} = 20$ (not drawn to scale).



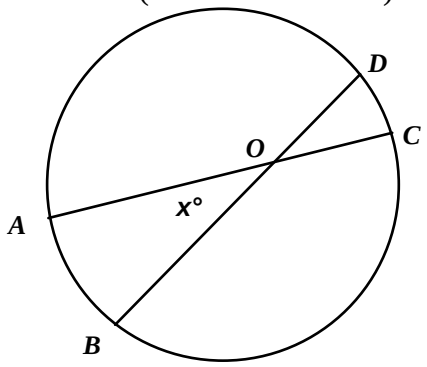
3. Find the value of x if $m\overset{\frown}{AB} = 50$ and $m\overset{\frown}{CD} = 35$ (not drawn to scale).



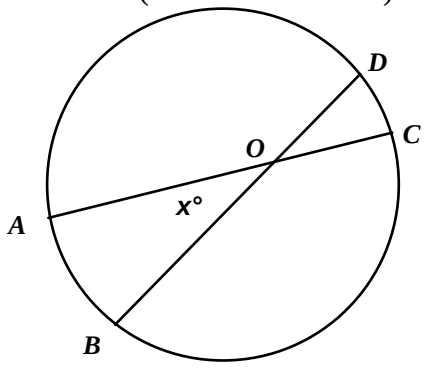
4. Find the value of x if $m\overset{\frown}{AB} = 62$ and $m\overset{\frown}{CD} = 56$ (not drawn to scale).



5. Find the value of x if $m\overset{\frown}{AB} = 65$ and $m\overset{\frown}{CD} = 29$ (not drawn to scale).



6. Find the value of x if $m\overset{\frown}{AB} = 26$ and $m\overset{\frown}{CD} = 53$ (not drawn to scale).



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[1] 48.5

[2] 39.5

[3] 42.5

[4] 59

[5] 47

[6] 39.5