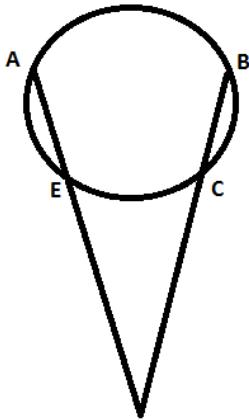


Name: _____
 Date: _____
 Class: _____

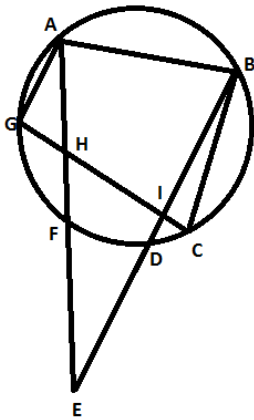
Geometry
 Unit 10
 HW 10-4

1)



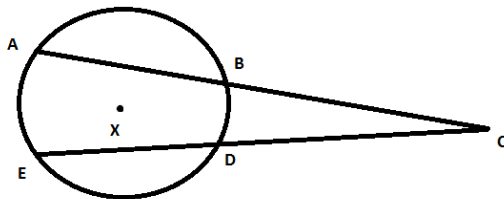
If $m\widehat{AB} = 11x + 49$, $m\widehat{EC} = 8x - 8$, and $m\angle ADB = 4x + 1$, find $m\angle ADB$

2)



$m\angle BCG = 78^\circ$, $m\widehat{AG} = 40^\circ$, $m\widehat{BC} = 59^\circ$,
 and $\widehat{GF} : \widehat{FD} : \widehat{DC} = 11 : 10 : 8$. Find $m\angle E$

3)

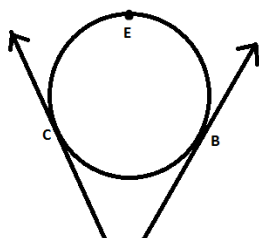


If $\widehat{BD} : \widehat{AE} : \widehat{AB} : \widehat{ED} = 1 : 3 : 5 : 7$, find $m\angle C$

4) Using the diagram for #4 – if $m\angle C = 45^\circ$ and $m\widehat{BD} = 50^\circ$, find $m\widehat{AE}$.

5) Using the diagram for #2, if $m\angle GAB = 8x - 2$, and $m\angle GCB = 6x - 14$. Find $m\angle GAB$.

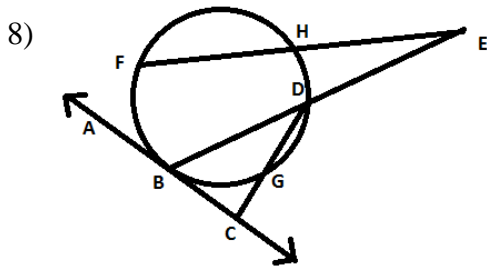
6)



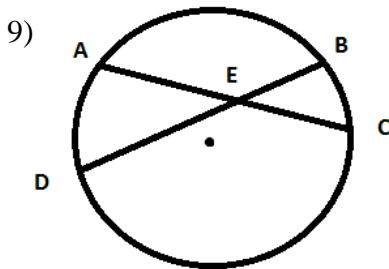
\overline{AC} and \overline{AB} are both tangents

$m\widehat{CEB} = 20x + 40$ and $m\widehat{CB} = 10x - 10$
 find $m\angle A$.

7) Using the diagram for #6 – $m\angle A = 50^\circ$, find $m\widehat{CB}$



\overline{CB} is a tangent,
 $m\widehat{FB} = x^2 + 2x + 1$, $m\widehat{HD} = 4x + 4$, and
 $m\angle HED = 4x - 6$, find $m\angle HED$.



In this circle, $m\widehat{BC} = 5x - 20$, $m\widehat{BA} = 7x - 17$
 $m\widehat{AD} = 6x - 16$, and $m\widehat{DC} = 8x - 3$.
 Find $m\angle DEA$.

10) Using the diagram for #9, $m\angle BEC = 2x^2 - 4x - 20$, $m\widehat{BC} = x^2 - 4x - 20$, and
 $m\angle DEA = 5x + 15$. Find $m\widehat{AD}$.