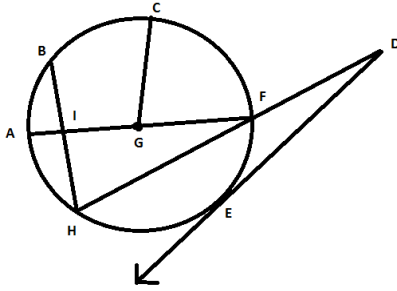


Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 10
 EC

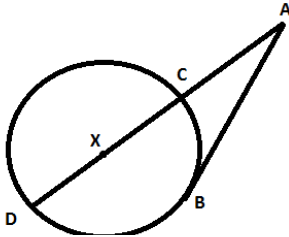
To be eligible to receive extra credit on the unit test you must have a score below 75. To receive extra credit you must score an 80% or higher on this assignment (anything lower results in no extra credit). If you earn extra credit is calculated in the following manner: $(75 - \text{Old Test Score})/3$. No rounding up. Multiply that number by 2 and add it to your old test score to get your new test score. This assignment will not be accepted late for any reason other than missing the day of school it is due in which case it must be turned in the next day you are in school even if you do not have class.

1) [5]



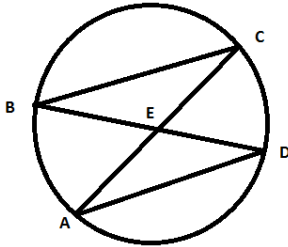
In $\odot G$, $AG = 16ft$ and the area of sector GCF is $58\pi ft^2$.
 Find the length of arc CF to the nearest tenth

3) [3]



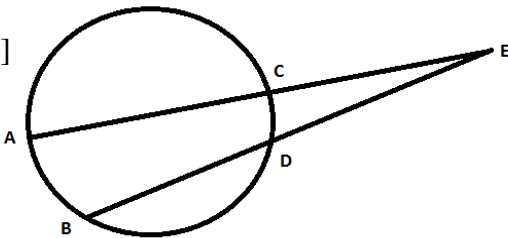
In $\odot X$ if $AB = 12$ and $CX = 9$, find AC.
 \overline{AB} is a tangent

4) [3]



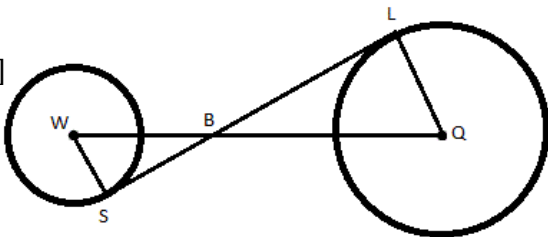
$m\widehat{CD} = 10x - 10$, $m\widehat{AB} = 9x - 6$, and $m\angle BEA = 8x + 1$. Find $m\angle BEC$.

5) [3]



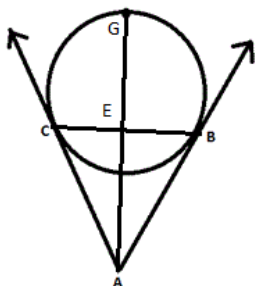
If $\widehat{CD} : \widehat{CA} : \widehat{AB} : \widehat{BD} = 4 : 13 : 6 : 7$
 Find $m\angle CED$.

6) [4]



If $WB = 10$, area of $\triangle WSB = 24$, and area of $\triangle LQB = 216$. Find the QB. ($\overline{BS}, \overline{BL}$ are tangents)

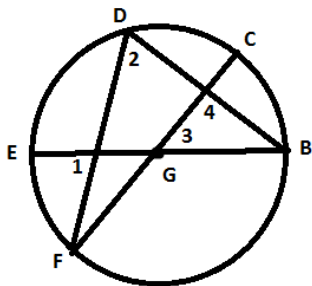
7) [5]



If $AC = x^2 + x$, $AB = 4x + 4$, and $m\widehat{CB} = 105^\circ$. Find BC. ($\overline{AC}, \overline{AB}$ are tangents)

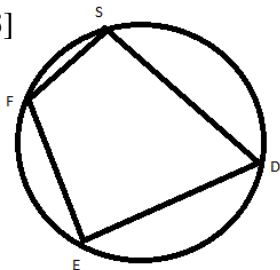
8) [3] What is the coordinates of the center of the circle represented by: $x^2 - 9x + y^2 + 17y + 5 = 0$?

9) [3]



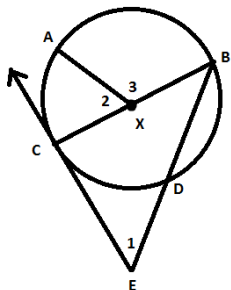
In $\odot G$, $\widehat{EF} : \widehat{ED} : \widehat{DC} = 3 : 5 : 2$, the area of the entire circle is 506in^2 . Find the area of sector BGC.

10) [3]



$m\angle FSD = 15x - 3$, $m\angle SDE = 8x + 5$, and $m\angle DEF = 10x + 8$. Find the $m\angle SFE$.

11) [4]



In $\odot X$, $EC = x + 1$, $BC = x + 3$, and $BE = 2x$. Find the area of the circle.