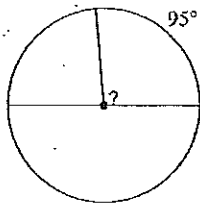
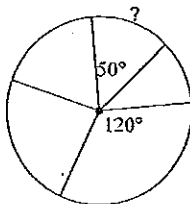


Find the measure of each arc or central angle

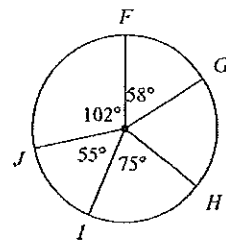
1. Find ?



2. Find ?

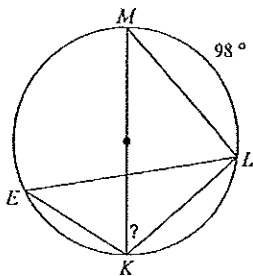


3. Find $m\widehat{FH}$ "measure of arc FH"

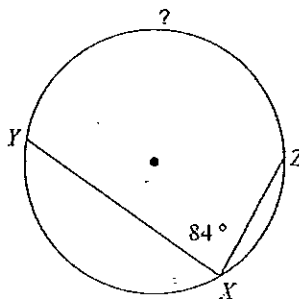


Find the measure of each arc or inscribed angle

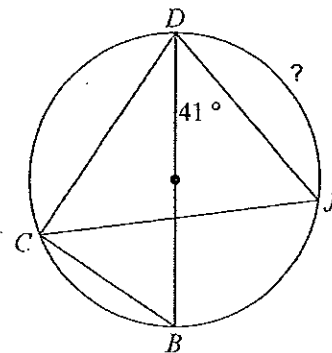
4. Find $m\angle MKL$



5. Find $m\widehat{YZ}$



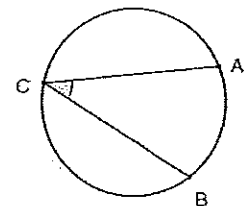
6. Find $m\widehat{DJ}$ (Hint: \overline{DB} is a diameter)



What if it's a semicircle?

8. What is the measure of an angle when it is inscribed in a semicircle (an arc with measure 180°)? Draw a picture of a semicircle if it helps.

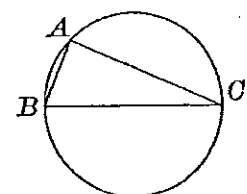
Figure 1



9. Assume that Figure 1 is not drawn to scale. If $m\widehat{AB} = 180^\circ$, then what is $m\angle C$? Why?

10. Use what you found above with the circle in Figure 2. \overline{BC} is a diameter of the circle, $\overline{AB} = 6$, and $\overline{AC} = 8$

Figure 2



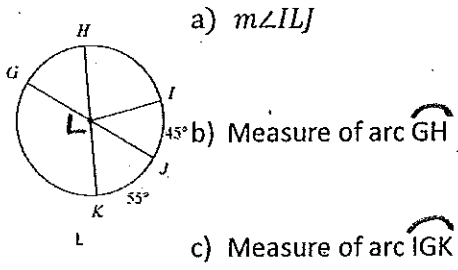
a) What is the diameter of the circle (\overline{BC})?

b) What is the radius of the circle?

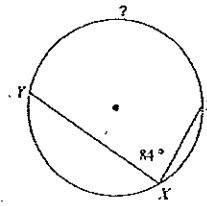
c) What is its area?

C level problems:

11. For the diagram below find:



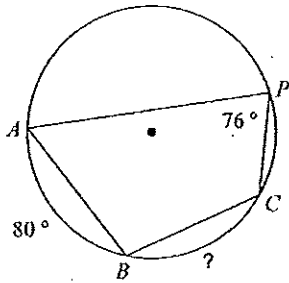
12. Find the measure of arc \widehat{YZ}



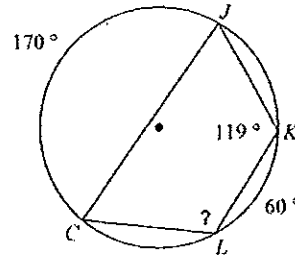
B Level Problems:

Find the angle or arc measure (the ?)

13. Find the measure of arc \widehat{BC}

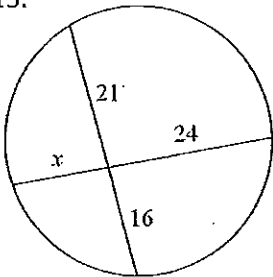


14. Find the measure of $\angle CLK$



Find the value of x

15.



16.

