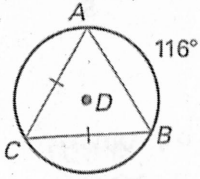
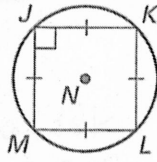


Find the measure of the given arc or chord

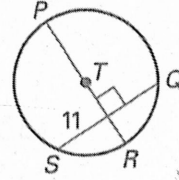
1. $m\widehat{BC} = 122^\circ$



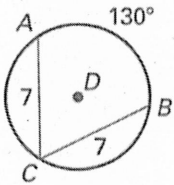
2. $m\widehat{LM} = 90^\circ$



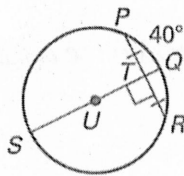
3. $\overline{QS} = 22$ units



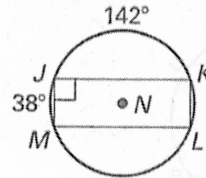
4. $m\widehat{AC} = 115^\circ$



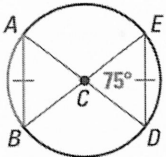
5. $m\widehat{PQR} = 80^\circ$



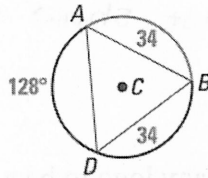
6. $m\widehat{KLM} = 180^\circ$



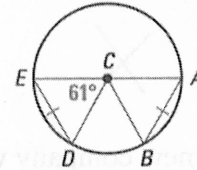
7. $m\widehat{AB} = 75^\circ$



8. $m\widehat{DAB} = 244^\circ$

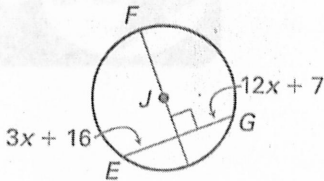


9. $m\widehat{BAE} = 241^\circ$



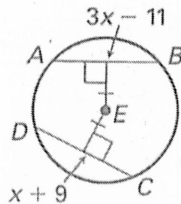
Find the value of x

10.



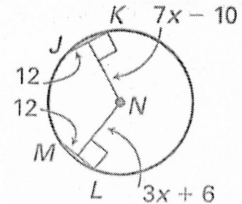
$x = 1$

11.



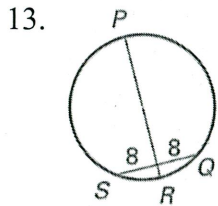
$x = 10$

12.

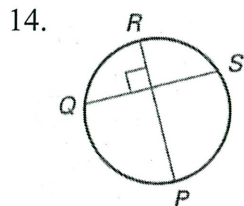


$x = 4$

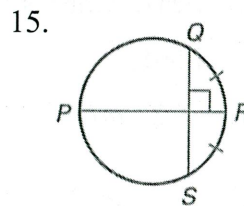
Determine whether \overline{PR} is a diameter of the circle. Show work to support your answer.



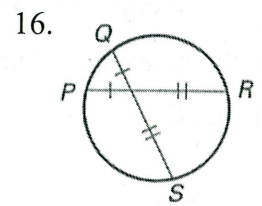
No, why?



No; why?

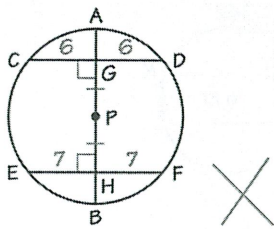


Yes; why?



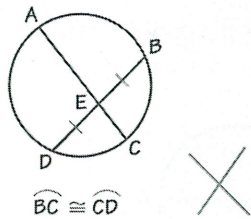
No; why?

17. Explain what is wrong with the diagram of $\odot P$.



CD should equal EF; why?

18. Explain why the congruence statement is wrong.



You do not know _____ therefore you cannot show that _____.

19. The owner of a new company would like the company logo to be a picture of an arrow inscribed in a circle, as shown. For symmetry, she wants \overline{AB} to be congruent to \overline{BC} . How should \overline{AB} and \overline{BC} be related in order for the logo to be exactly as desired.

$\overline{AB} \cong \overline{BC}$

