Geometry- Mrs. Tilus   Name: _____
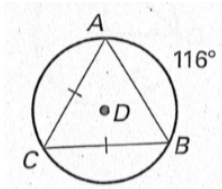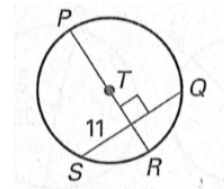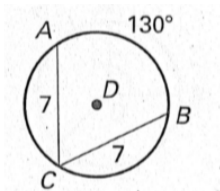Unit 10- Worksheet #3: Apply Properties of Chords

Find the measure of the given arc or chord

1. $m\overset{\frown}{BC}$

2. $m\overset{\frown}{LM}$
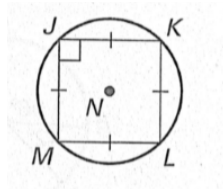
3. $\overline{QS}$

4. $m\overset{\frown}{AC}$

5. $m\overset{\frown}{PQR}$
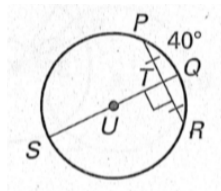
6. $m\overset{\frown}{KLM}$
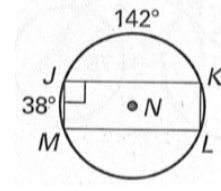
7. $m\overset{\frown}{AB}$
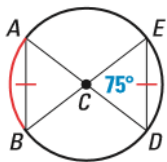
8. $m\overset{\frown}{DAB}$
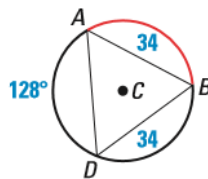
9. $m\overset{\frown}{BAE}$
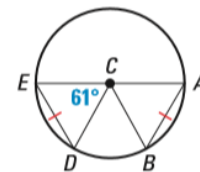
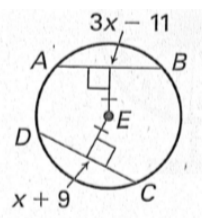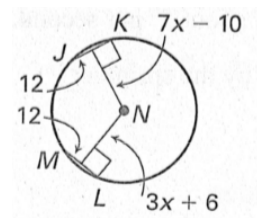
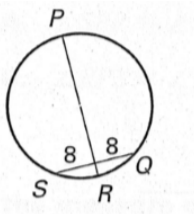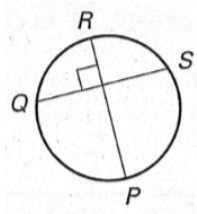Find the value of x

10.
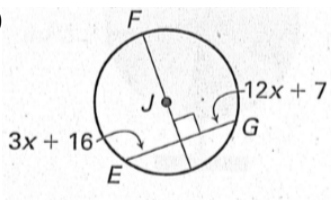
11.

12.

Determine whether $\overline{PR}$ is a diameter of the circle. Show work to support your answer.
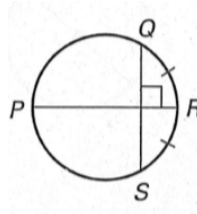
13.
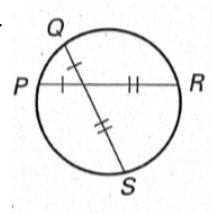

14.

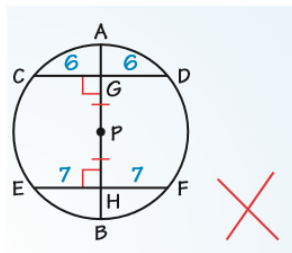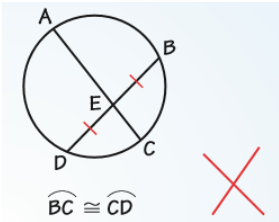
15.

16.

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

18. Explain why the congruence statement is wrong.

$\overset{\frown}{BC} \cong \overset{\frown}{CD}$

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.