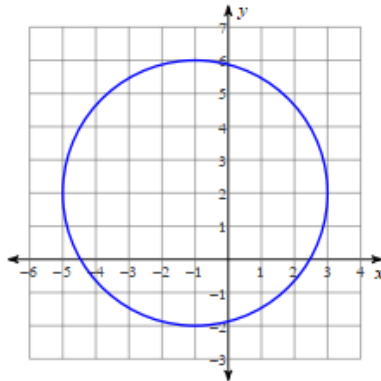


9-3: CIRCLES IN THE COORDINATE PLANE

1) What is an equation for a circle with center $(8, -3)$ and radius 6? _____

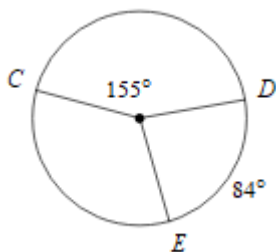
2) What is an equation for the circle below? _____



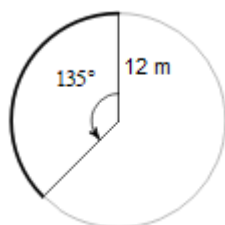
3) Is the point $(5, 1)$ on the circle with radius 4 and center $(3, 1)$? Show work that justifies your answer.

10-1: ARCS & SECTORS

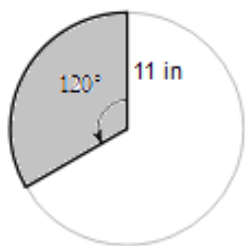
4) Find $m\angle C$. _____



5) Find the **length** of the **bold** arc. Write your answer in terms of π . _____

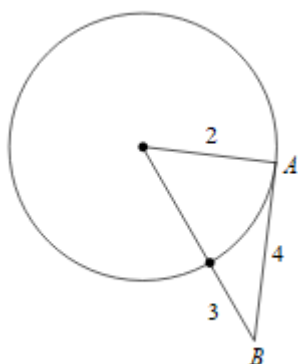


6) Find the **area** of the **shaded sector**. Round your answer to the nearest hundredth. _____

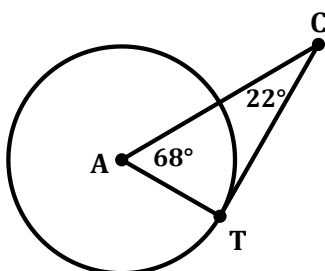


10-2: LINES TANGENT TO A CIRCLE

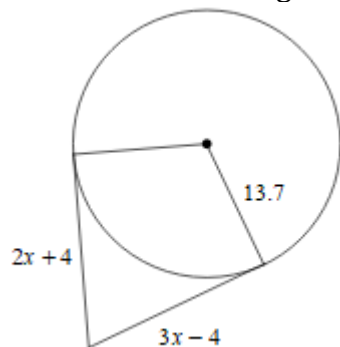
7) Is \overline{AB} tangent to the circle? Show work that justifies your answer. **YES or NO**



8) Is \overline{CT} tangent to $\odot A$? Show work that justifies your answer. **YES or NO**

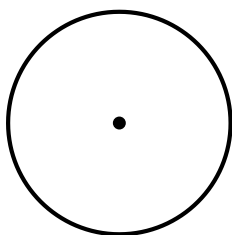


9) Find the value of x given the two tangent segments in the diagram. _____



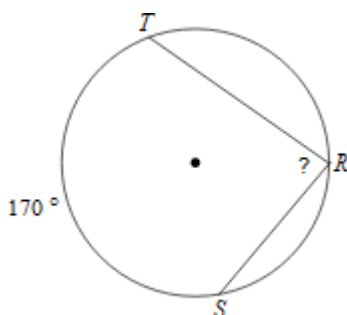
10-3: CHORDS

- 10) Find the radius of a circle if a 18-cm chord is 12 cm from the center. _____

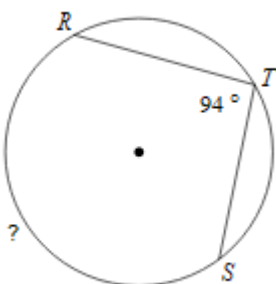


10-4: INSCRIBED ANGLES

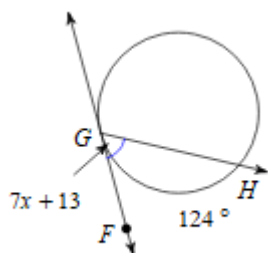
- 11) Find the missing angle. _____



- 12) Find the missing arc. _____

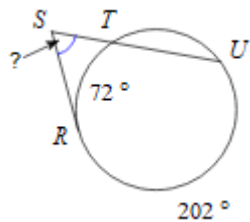


- 13) Find the value of x if \overline{FG} is tangent to the circle. _____

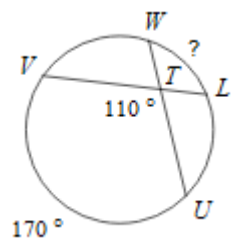


10-5: SECANT LINES & SEGMENTS

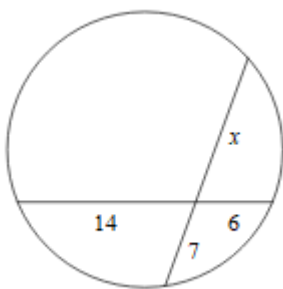
- 14) Find the missing angle.



- 15) Find the missing arc.



- 16) Find the value of x .



- 17) Given the secant-tangent angle below, find the value of x .

