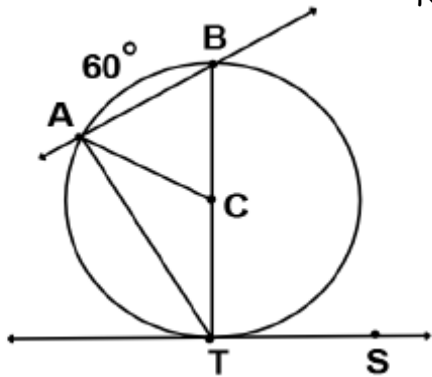


Show work. Give exact answers in simplest form—no rounding decimals!

1. Use circle C.

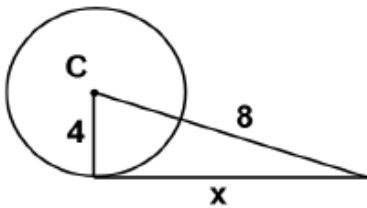


- Name:
- a) 2 minor arcs
 - b) 2 major arcs
 - c) semicircle
 - d) secant line
 - e) tangent line
 - f) 2 chords
 - g) 3 radii
 - h) diameter

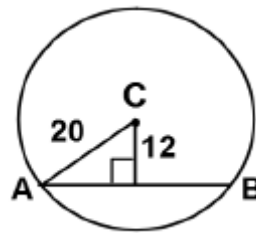
Find:

- i) $m\angle TCA$
- j) $m\angle BTA$
- k) $m\angle BAT$
- l) $m\angle BTS$

2. In circle C, find x.

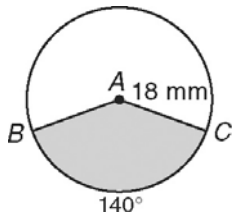


3. In circle C, find \overline{AB} .



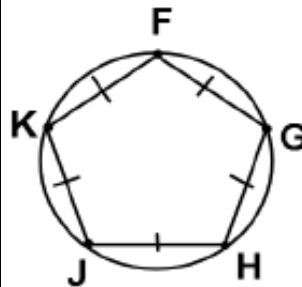
4. Give answers in terms of π .

Area of sector BAC

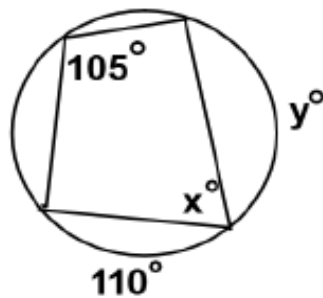


Length of arc BC

5. Find $m\angle GHJ$.



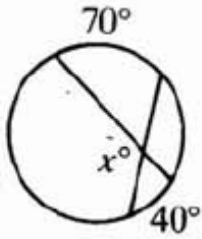
6. Find x and y.



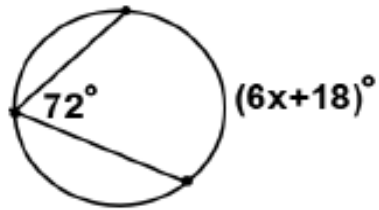
7. Find center and radius of the circle

$$x^2 + y^2 - 4x + 10y + 20 = 0$$

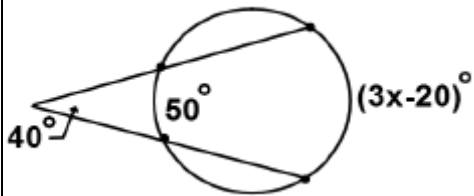
8. Find x .



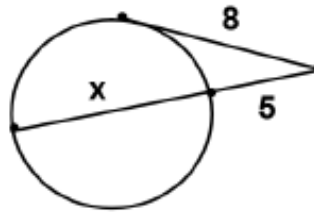
9. Find x .



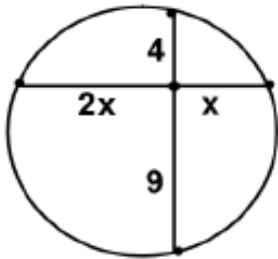
10. Find x .



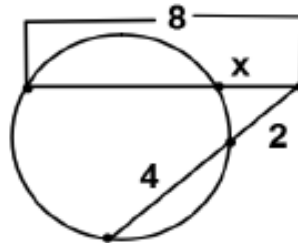
11. Find x .



12. Find x .



13. Find x .



14. Solve the system using algebra:

$$x^2 + y^2 = 10$$

$$y = -3x$$

