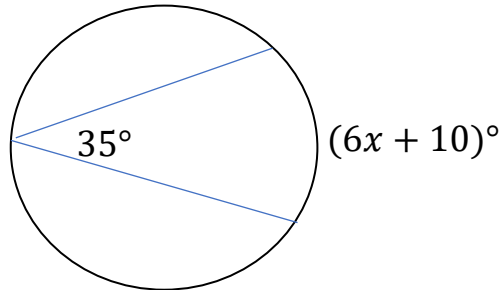# Inscribed Angles 21.3

Overview of Problems
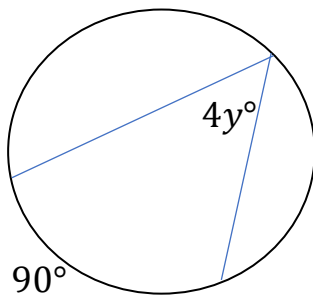
🚩 *Example Set: A*

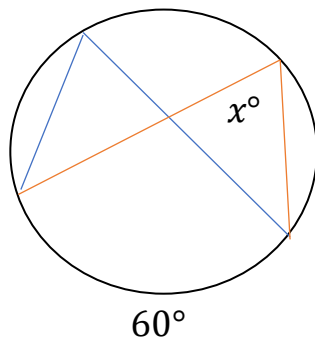**Find the value of the variable:**
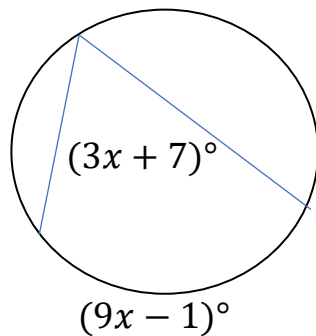
1.

35° $(6x + 10)°$

2.

$4y°$

90°

3.

$x°$

60°

4.

$(3x + 7)°$

$(9x - 1)°$

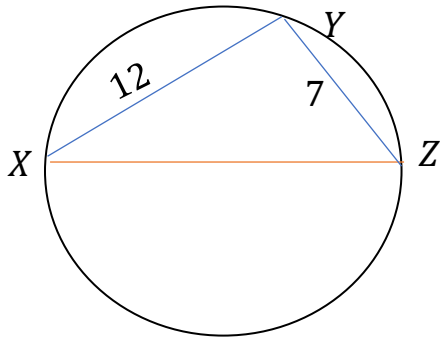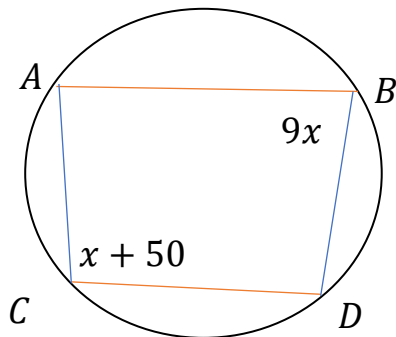# Inscribed Angles 21.3

Overview of Problems

🚩 *Example Set: B*
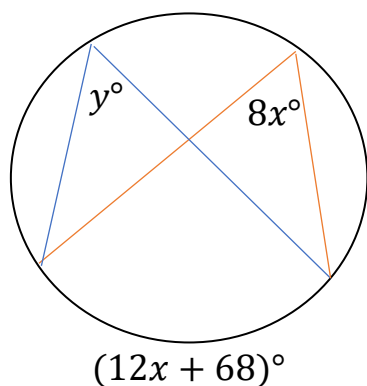
Answer the following questions:

1. $\overline{XZ}$ is a diameter. Find the Radius.

2. $ABCD$ is a quadrilateral. Find the value of x.
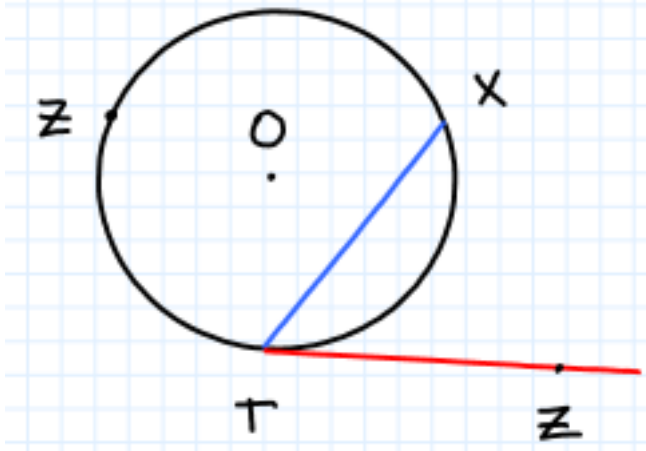

3. Find the value of x and y
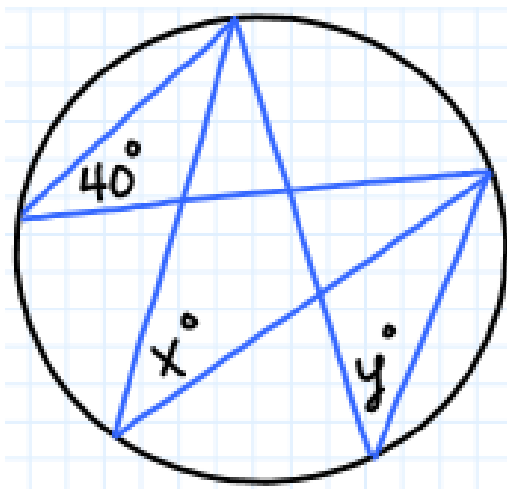
Inscribed Angles 21.3

Overview of Problems

🚩   *Example Set: C*

Answer the following questions:

1. $m\overset{\frown}{XZT} = 260°$. TZ is tangent to circle O.

    Find $m\angle XTZ$
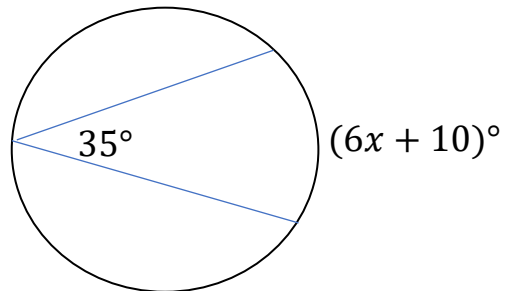

2. Find the value of x and $y.$

Overview of Problems

🚩 *Example Set: A -ANSWER KEY*

Find the value of the variable:
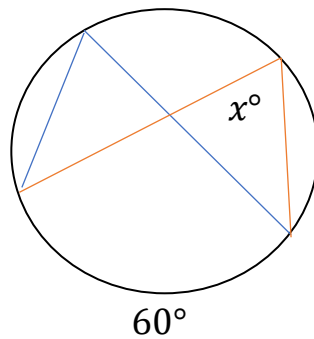
1. $x = 10$

   $35°$ $(6x + 10)°$

2. $y = 11.25$

   $4y°$

   $90°$

3. $x = 30°$

   $x°$

   $60°$

4. $x = 5$

   $(3x + 7)°$

   $(9x - 1)°$
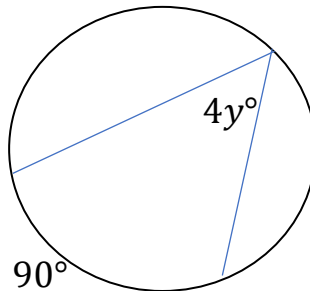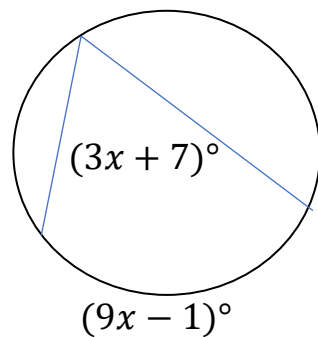
Overview of Problems

🚩 *Example Set: B- **ANSWER KEY***

Answer the following questions:

1. $\overline{XZ}$ is a diameter. Find the Radius. 6.94

2. $ABCD$ is a quadrilateral. Find the value of x. $x = 13$
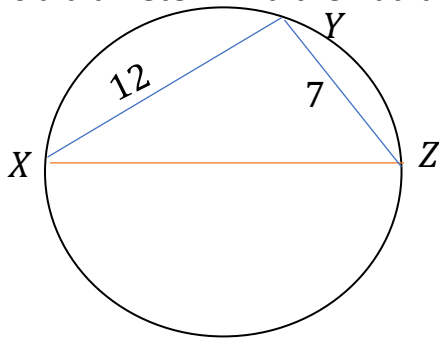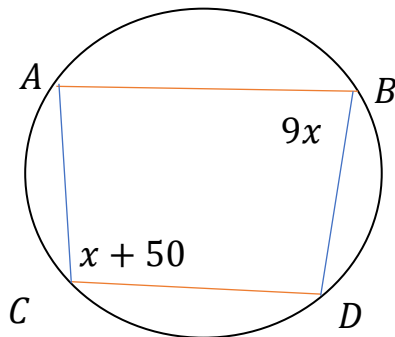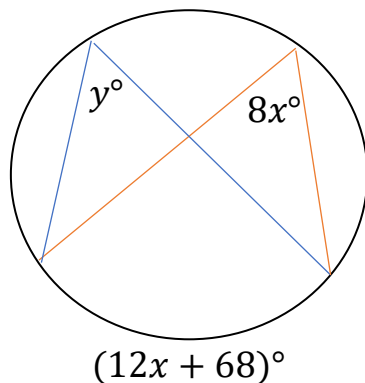

3. Find the value of x and y $x = 17$ $y = 136$

Inscribed Angles 21.3
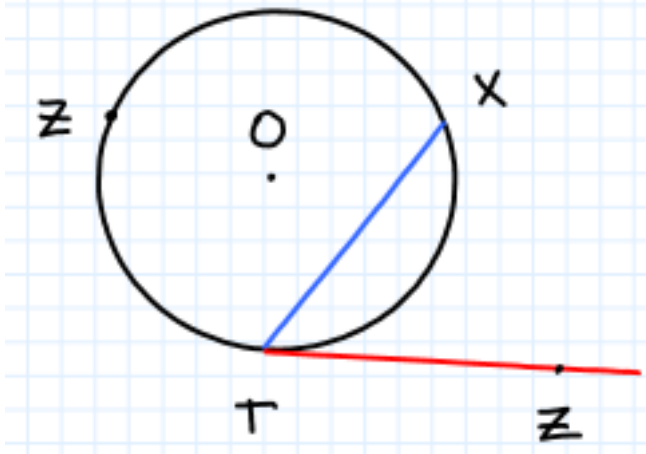
Overview of Problems

🚩   *Example Set: C-**ANSWER KEY***

Answer the following questions:

1. $m\overset{\frown}{XZT} = 260°$. TZ is tangent to circle O.

    Find $m\angle XTZ$ 50°

2. Find the value of x and y. $x = 40°$ $y = 40°$