10-1 & 11.3 Opener - Circles, Circumference, Area, and Sectors

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. A blue circle with a triangle in the center

   Description automatically generatedRefer to the circle at the right.
2. Name the circle.
3. Name the radii of the circle.
4. Name the chords of the circle.
5. Find the area of the sector and circle.

A blue circle with a triangle pointing to the right

Description automatically generatedA blue circle with a black dot and a pink line

Description automatically generated

A blue circle with a triangle in it

Description automatically generated

1. Refer to ⨀W.
2. Suppose the radius of the circle is 37 yards*.* Find the diameter.
3. If *RQ* = 14 meters, find *SW*.

10-1 & 11.3 Exit Slip - Circles, Circumference, Area, and Sectors

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. A blue line drawing of a circle

   Description automatically generatedRefer to the circle at the right.
2. Name the circle.
3. Name the radii of the circle.
4. Name the chords of the circle.
5. Find the area of the sector and circle.

A blue circle with a black dot and a red line

Description automatically generatedA blue circle with black text

Description automatically generated

1. Refer to ⨀W.
2. A blue circle with black center

   Description automatically generatedIf *PS* = 8 meters, find *SW.* .
3. If *WP* = 12 inches, find *QW* and Q*R*.

10.2 Opener – Angles and Arcs

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. A blue circle with black background

   Description automatically generatedNL and MK are diameters of ⨀T. Identify each arc as a major arc, minor arc, or semicircle. Then find each measure.

1. A blue circle with black background

   Description automatically generatedUse ⨀W to find the length of each arc to the nearest hundredth. DB is a diameter.

if the diameter is 23 millimeters.

1. Convert from radians to degrees, and then degrees to radians.

60°radians

10.2 Exit Slip – Angles and Arcs

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. **A blue and pink circle with a black background

   Description automatically generated**PL and KM are diameters of ⨀T. Identify each arc as a major arc, minor arc, or semicircle. Then find each measure.

1. A blue circle with black background

   Description automatically generatedUse ⨀W to find the length of each arc to the nearest hundredth. DB is a diameter.

if the radius is 104 feet.

1. Convert from radians to degrees, and then degrees to radians.

270°radians

10-3 Opener – Arcs and Chords

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the value of x.

A circle with a triangle and a triangle in the center

Description automatically generatedA blue circle with lines in it

Description automatically generated

1. **A blue and pink circle with a black background

   Description automatically generated**In ⨀D, DB = 5 and CA = 8. Find each measure.

*DE*

*EB*

*AE*

1. A blue circle with pink squares and black background

   Description automatically generatedIn ⨀M, *JL* = 23 and *NT* = 3*x* – 1. What is the value of *x*?

10-3 Exit Slip – Arcs and Chords

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find the value of x.

A blue circle with pink lines

Description automatically generatedA blue line in a circle

Description automatically generated

1. **A blue and pink circle with a black background

   Description automatically generated**In ⨀W, YZ = 17, UX = 11, and Find each measure. Round to the nearest hundredth, if necessary.

*VY*

*UV*

1. **A blue and pink circle with a square in center

   Description automatically generated**In ⨀Q, , *SQ* = 3*x* – 2, and *UQ* = 2*x* – 1. What is the value of *x*?

10-4 Opener – Inscribed Angles

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Find each measure.

A blue circle with triangles

Description automatically generated**A blue circle with a triangle in it

Description automatically generated**

1. Prove the following.

**Given:**  ⊙C; and are diameters.

A blue line drawing of a triangle

Description automatically generated**Prove:**

10-4 Exit Slip – Inscribed Angles

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. A blue circle with lines in it

   Description automatically generatedFind each measure.

**A blue circle with a triangle in it

Description automatically generated**

1. Prove the following.

A blue line drawing of a triangle

Description automatically generated**Given:**   ⊙T, is a diameter

**Prove:**  ∠S and ∠P are supplementary

10-5 & 10-6 Opener – Tangents, Secants, and Angle Measures

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. **A blue line on a black background

   Description automatically generated**A blue and black spiral

   Description automatically generatedIdentify the number of common tangents that exist between each pair of circles. If no common tangent exists, state no common tangent.Determine if the given segment is tangent to the circle.

1. Find the value of x. Assume that segments that appear to be tangent are tangent.

A blue circle with a triangle in the middle

Description automatically generated

A blue circle with arrows

Description automatically generated

1. Find the measure.

10-5 & 10-6 Exit Slip – Tangents, Secants, and Angle Measures

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. **A blue line drawing of a triangle

   Description automatically generated**Identify the number of common tangents that exist between each pair of circles. If no common tangent exists, state no common tangent.Determine if the given segment is tangent to the circle.

A blue circle with black background

Description automatically generated

1. A blue line on a black background

   Description automatically generatedFind the value of x. Assume that segments that appear to be tangent are tangent.
2. A blue line in a circle

   Description automatically generatedFind the measure.

10-7 Opener – Equation of a Circle

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Write the equation of each circle.

A circle with a dotted center on a grid

Description automatically generated

center at (–4, 8), diameter 14 center at (4, –6), passes through (7, –3)

1. State the coordinates of the center and the measure of the radius of the circle with the given equation.

10-7 Exit Slip – Equation of a Circle

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_\_\_

1. Write the equation of each circle.

A circle with a dotted line and a dotted line

Description automatically generated

center at (0, 0), radius 12 center at (–9, 6), passes through (–5, 2)

1. State the coordinates of the center and the measure of the radius of the circle with the given equation.