**Secondary Math 2 Unit 4 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_**

Matching: Select the vocabulary term that describes each object listed from the list on the right. Each vocabulary term must be used exactly once.

|  |  |  |  |
| --- | --- | --- | --- |
| \_\_\_ | 1. $\overbar{LK}$
 | 1. Radius
 |  |
| \_\_\_ | 1. $\overbar{NH}$
 | 1. Point of tangency
 |  |
| \_\_\_ | 1. $\overbar{KN}$
 | 1. Chord that is not a diameter
 |  |
| \_\_\_ | 1. $∠JKL$
 | 1. Diameter
 |  |
| \_\_\_ | 1. $\overleftrightarrow{MJ}$
 | 1. Center of circle
 |  |
| \_\_\_ | 1. $∠LHN$
 | 1. Inscribed Angle
 |  |
| \_\_\_ | 1. $H$
 | 1. Central Angle
 |  |
| \_\_\_ | 1. $J$
 | 1. Tangent Line
 |  |

|  |  |
| --- | --- |
| 1. Use the figure to answer the questions below:

find arc length, r=7, theta=90.PNG1. Classify $\hat{BC}:$ minor semicircle major
2. What is the measure of $\hat{BC}$?
3. What is the circumference of the circle?
4. What is the length of $\hat{BC}$?
5. What is the area of $⨀A$?
6. What is the area of sector $\hat{BC}?$
 | 1. Use the figure to anwer the questions below:

find arc length, r=12, theta=120.PNG1. Classify $\hat{DBE}:$ minor semicircle major
2. What is measure of $\hat{BC}$?
3. What is the circumference of the circle?
4. What is the length of $\hat{EC}$?
5. What is the area of $⨀A$?
6. What is the area of sector $\hat{BE}?$
 |
| 1. find arc length, r=7, theta=90.PNG

a. What type of angle is $∠CAB$ ?b. $m\hat{CB}=$ | 1. find arc length, r=7, theta=90.PNG

a. What type of angle is $∠BCD$ ?b. $m\hat{BD}=$ |
| 1. find arc length, r=7, theta=90.PNG

a. What type of angle is $∠BCD$ ?b. $m∠BCD=$ | 1. Solve for x.

 |
| 1. Find the measure of $∠C$.

 | 1.

a. What is the value c?b. Find the $m∠C$ |
| 1. Determine if line AB is tangent to the circle.
 | 1. Determine if line AB is tangent to the circle.

 |
| 1. Find the segment length indicated. Assume that lines that appear to be tangent are tangent.
 | 1. Find the segment length indicated. Assume that lines that appear to be tangent are tangent.

 |
| 1. Solve for x. Assume that lines that appear to be tangent are tangent.

 | 1. Solve for x. Assume that lines that appear to be tangent are tangent.

 |
| 1. Give the radius and the center and then graph: $\left(x-3\right)^{2}+\left(y+2\right)^{2}=4$

find equation2.PNG | 1. Give the radius and the center and then graph: $\left(x+1\right)^{2}+y^{2}=25$

find equation2.PNG |
| 1. Write the equation of the circle.find equation2.PNG
 | 1. Write the equation of the circle.find equation1.PNG
 |
| 1. Write the equation of the circle.find equation2.PNG
 | 1. Write the equation of the circle with the given information: Center: $\left(253, -967\right)$Diameter: $20$
 |
| 1. Show that the circles are similar by describing the transformations that map $⨀R$ onto $⨀T.$ State the scale factor.

 |