**Secondary Math 2 4.1 Homework Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_**

**Circles and Arcs**

1. **Use what you know about central angles to answer the following questions**

|  |  |  |  |
| --- | --- | --- | --- |
| a) | Find the measure of $\hat{BDC}$. | b) | Find the value of $t$. |

1. **Use what you know about inscribed angles to answer the following questions**

|  |  |  |  |
| --- | --- | --- | --- |
| a) | Find the value of *x* and the measure of Arc $\hat{AB}$ | b) | Find $m∠B and m∠C.$ |

**Review Problems:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Solve for x: |  | Solve for x and y: |
|  | Solve for x: |  | Solve for x: |

**Extended Understanding:**

1. $\overbar{SU} $**is a diameter. Find the measure of each angle or arc and identify if the arc is a major or minor arc.**



a. $∠SRT=$ e. $\hat{ST}=$

b. $∠VRS=$ f. $\hat{VS}=$

c. $∠VRT=$ g. $\hat{VST}=$

d.$ ∠TRV=$ h. $\hat{TUV}=$

1. **Use the properties of circles and angles to solve for the indicated variables.**

|  |  |  |  |
| --- | --- | --- | --- |
| a) | Solve for x: | b) | Find the value of a, b, c, and d. |