**9SS1 V3 Shape & Space – Circle Properties**

**Part I:**

1. Label each line segment using proper terminology.



1. List two different pairs of angles that are congruent.
2. In the circle shown, *PR* = 12 cm. What is the length of *QR*?

**Part II:**

1. A metal disc is to be cut from a square sheet with side length of 50 cm. How far from a corner of the sheet is the center of this disc?
2. A pool with a radius of 8 ft is surrounded by a wooden deck as shown. If the distance from A to B is 20 ft, find the width of the deck surrounding the pool. 



1. Determine the measure of angle
	1. *x*
	2. *y*
	3. *z*

**Part III:**

1. If JG is a tangent to the circle, what is the value of *x* and the measure of $∠JGH$.

