**Practice – Circles – Day 1**

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

Graph the following equations and state the domain and range:

1.  2. 

Center:

Radius:

Domain:

Range:

Center:

Radius:

Domain:

Range:

Write the equation of the circles then state their domain and range:

1. Center (-4, -5), Radius =  4. Center and an area of 
2.  6.

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1. Given Circle P, write the equation of the circle. Then graph and write the equation of a new circle Q that is transformed 

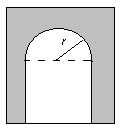


Equation of Circle P \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation of Circle Q \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Domain: \_\_\_\_\_\_\_\_\_\_\_\_ Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_ Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The face of a one lane tunnel in the figure is a square with a semi-circle above it. The semi-circle can be described by the equation. A truck 15 feet wide and 22 feet tall tries to drive through the tunnel. Will it make it? Justify your answer!



9. Find the center and radius of the following circle 

10.Find the equation of the circle with center (-1, 3) and containing the point (-5, 6).