**10.1 Practice – Circles**

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. Both of the equations below represent a circle, in general form. Complete the squares to find the standard form equation and graph each circle.
2.  B. 



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!



1. The intersection of a right circular cone and a plane neither perpendicular nor parallel to its axis, nor though the base is a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Slicing a cone \_\_\_\_\_\_\_\_\_\_\_\_ gives a cross section of an ellipse.
3. Parallel to its base
4. Parallel to its side
5. Perpendicular to its base
6. None of the above