Parabolas and Hyperbolas Practice Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions: Circle the name that correctly identifies what type of conic each equation represents.**

1.  Circle Ellipse Hyperbola Parabola

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**Graph the following. Then identify the vertex, focus, and directrix.**

1. 

Vertex: \_\_\_\_\_\_\_\_\_\_\_

Focus: \_\_\_\_\_\_\_\_\_\_\_

Directrix: \_\_\_\_\_\_\_\_\_\_\_

**Write the equation of the parabola in standard form given the following information.**

1. Vertex (9, 7) Directrix 

**Complete the square to put the following parabolas into standard form.**

1. 

**Graph the following. Then identify the center, vertices, and foci for each.**

1. 

Center: \_\_\_\_\_\_\_\_

Vertices: \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

Foci: \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

**Write the equation of the hyperbola in standard form given the following information.**

1. Vertices (9, 7), (9, -17) 

Foci (9, 8), (9, -18)

**Complete the square to put the following hyperbolas into standard form.**

1. 