**PRE CALC REVIEW WS CH 10 – CONICS Name:**

**Write in standard form and then identify all of the parts that we’ve found in class.**

1. 
2. 
3. 
4. 

**Find an equation for the parabola that satisfies the given conditions:**

1. Focus (3, -4) vertex (1, -4)
2. Vertex (-2, 4) directrix y = 1
3. Focus (2, 1), opens to the left, contains (2, 5)
4. Vertex (1, 8), opens vertically,   
   contains (11, 13)

**Find an equation for the ellipse that satisfies the given conditions:**

1. Co-vertices (-13, 7)(-3, 7), major axis length of 16
2. Major axis from (-13, 2) to (1, 2) and minor from (-6, 4) to (-6, 0)
3. Vertices (-10, 0) and (10, 0), 

**Find an equation for the hyperbola that satisfies the given conditions:**

1. Vertices (0, -6) (0, 6) and   
   foci (0, -7)(0, 7)
2. Foci (2, 0)(-2, 0) and   
   asymptotes 
3. Center (0, 0) conjugate axis 12 units, asymptotes 
4. Vertices (4, 0)(-4, 0), conjugate axis 12 units
5. Foci (0, -10)(0, 10) and   
   Vertices (0, 8) (0, -8)
6. Center(0, 0), a vertex (0, 6), passes through (-5, 9)

**Find an equation for the circle that satisfies the given conditions:**

1. Endpoints of diameter at (-9, 0) and (2, -5)
2. Center (8, -9) and contains (21,22)