**PRE CALC REVIEW WS CH 10 – CONICS (2) 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 (-6, 2) vertex (-6, -1)
2. focus (-3, -4) opens down and contains (5, -4)
3. Focus (7, 10), directrix x = 1
4. Vertex (-6, 4), opens horizontally, contains (-10, 8)

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

1. vertices (-7, -3)(13, -3), foci (-5, -3)(11, -3)
2. Foci (-10, 8) to (14, 8) major axis 30 units
3. Co-vertices (0, 1) and (6, 1), 

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

1. Vertices (3, 0) (3, 0) conjugate axis 10 units
2. Foci (0, 7)(0, 7) and asymptotes 
3. Center (0, 0) transverse axis 10 units, asymptotes 
4. Vertices (0, 10)(0, -10), conjugate axis 16 units
5. Foci and transverse axis 6 units
6. Center(0, 0), a vertex (0, 3), asymptote 7x + 5y = 0

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

1. Endpoints of diameter at (4, 1) and (-3, 2)
2. Center (2, -4) and tangent to x-axis