1. Consider \((x + 2)^2 + (y - 3)^2 = 4\),
   (a) (2 points) Find its center.
   
   (a) 

   (b) (2 points) Find its radius.
   
   (b)

   (c) (4 points) Graph. Discuss its domain and range in interval notation.

2. Consider \(x^2 + y^2 - 2x + 6y - 6 = 0\),
   (a) (4 points) Apply completing the square process twice to write in \((x - h)^2 + (y - k)^2 = r^2\) form.
   
   (a)
(b) (4 points) Find its center and radius.

(c) (4 points) Graph. Discuss its domain and range in interval notation.

3. Consider the graph below,

(a) (4 points) Find its center and radius.

(b) (3 points) Find its equation in $(x - h)^2 + (y - k)^2 = r^2$ form.
4. Consider $16x^2 + 4y^2 = 64$,
   (a) (2 points) Find its center.
   (b) (4 points) Graph. Discuss its domain and range in interval notation.

5. Consider $\frac{(x-2)^2}{4} + \frac{(y+3)^2}{9} = 1$,
   (a) (2 points) Find its center.
   (b) (4 points) Graph. Discuss its domain and range in interval notation.
6. Consider the graph below,

(a) (2 points) Find its center.

(b) (3 points) Find its equation in \( \frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1 \) form.

7. Consider \( 4(x+2)^2 + 9(y-3)^2 = 36 \),

(a) (2 points) Write in \( \frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1 \) form.

(b) (4 points) Graph.