College Algebra Weekly Quiz 5 Name:_____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. Consider $16x^2 + 4y^2 = 64$,

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



2. Consider
$$\frac{(x-2)^2}{4} + \frac{(y+3)^2}{9} = 1$$
,

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



- - (a) (2 points) Find its center.

4. 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.





- 8. Consider the graph below, *y y*<
 - (c) (4 points) Discuss its domain and range in interval notation.



(b) _____

(a) (2 points) Find its center.

(b) (4 points) Find its equation in standard form.

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



(a) _____

12. Consider the graph below,



- (a) (2 points) Find its center.
- (b) (4 points) Find its equation in standard form.
- (b) _____(b) _____(c) (4 points) Discuss its domain and range in interval notation.

(c) _____

(a) _____