

Intermediate Algebra

Name: _____

Study Guide 22

Class: _____

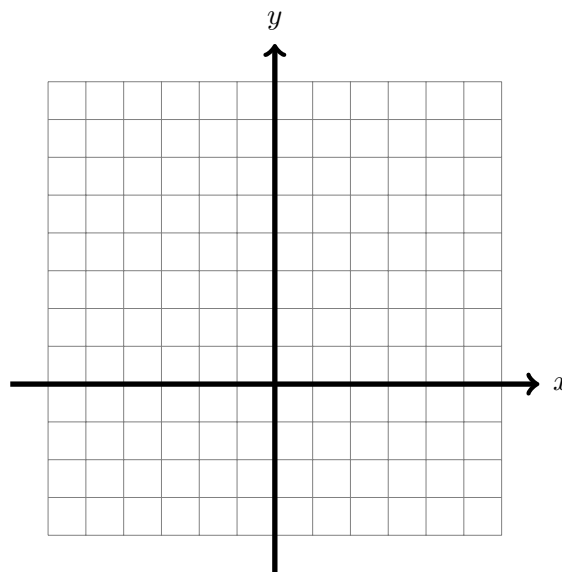
Due Date: _____

Score: _____

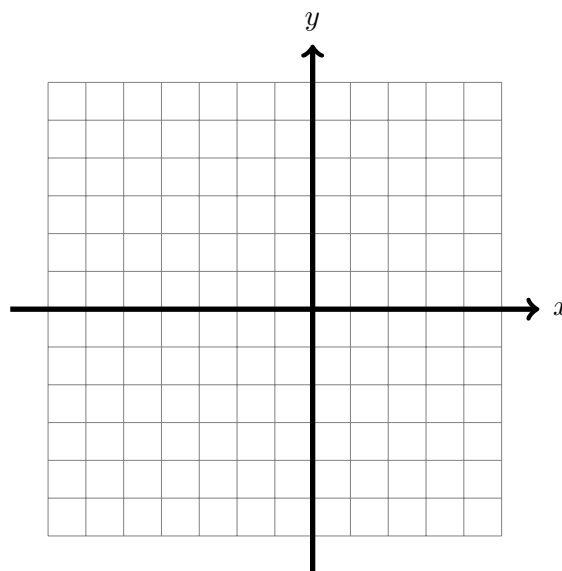
No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

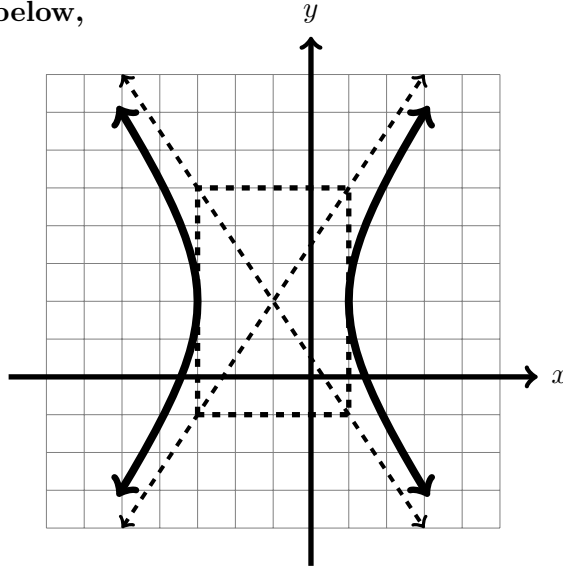
1. (4 points) Graph $\frac{x^2}{4} - \frac{(y-3)^2}{9} = 1$.



2. (4 points) Graph $25(x+2)^2 - 4y^2 = -100$.



3. Consider the graph below,



(a) (2 points) Find its center.

(a) _____

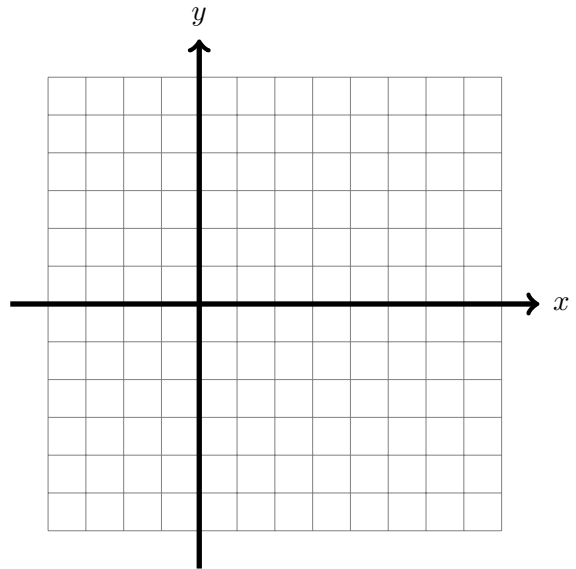
(b) (4 points) Find its equation in standard form.

(b) _____

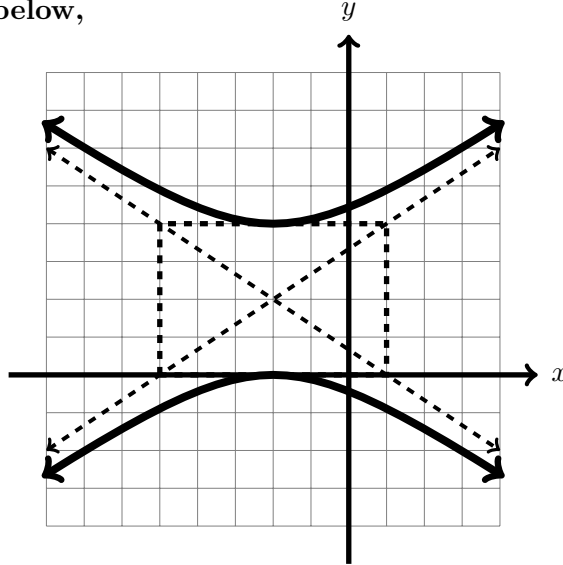
(c) (4 points) Discuss its domain and range in interval notation.

(c) _____

4. (4 points) Graph $4(x - 3)^2 - 9(y + 1)^2 = 36$.



5. Consider the graph below,



(a) (2 points) Find its center.

(a) _____

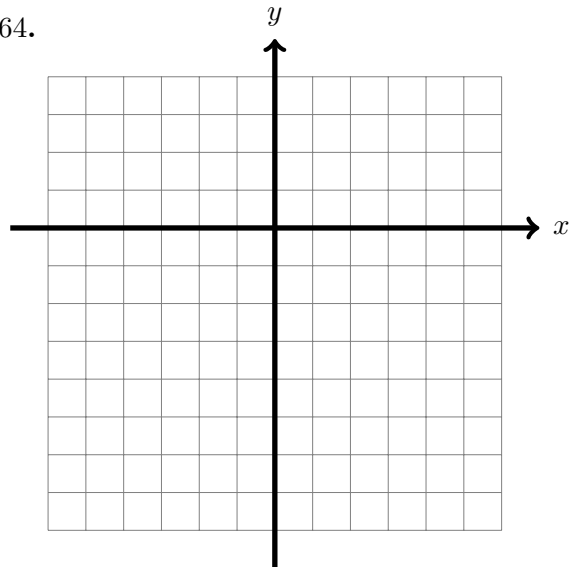
(b) (4 points) Find its equation in standard form.

(b) _____

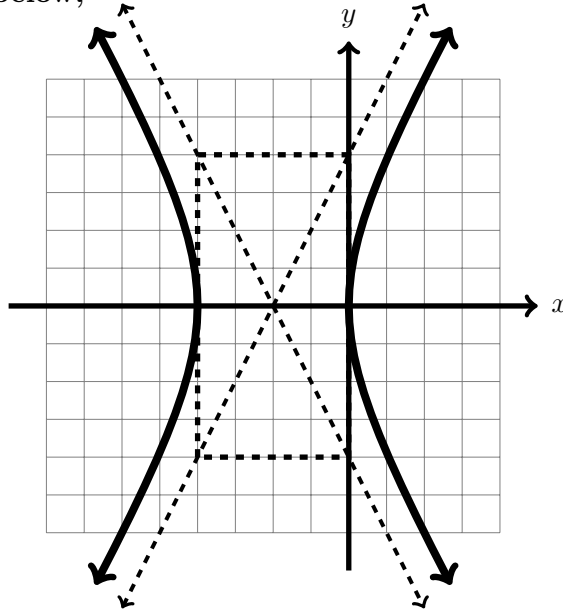
(c) (4 points) Discuss its domain and range in interval notation.

(c) _____

6. (4 points) Graph $16(x - 2)^2 - 4(y + 4)^2 = -64$.



7. Consider the graph below,



(a) (2 points) Find its center.

(a) _____

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

(b) _____

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

(c) _____

8. (4 points) Graph $25(y - 1)^2 - 4(x + 2)^2 = -100$.

