College Algebra	Name:
Study Guide 18	Class:
Due Date:	Score:

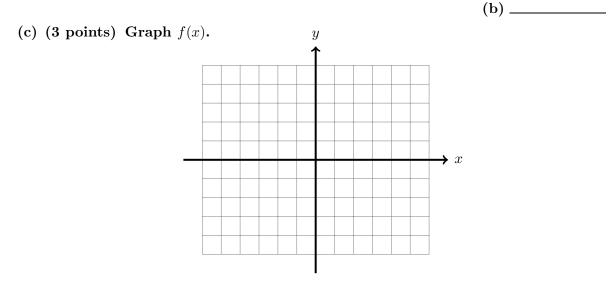
No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. Consider $f(x) = \frac{x}{x^2 + 4}$, (a) (2 points) Find all its intercepts.

(a) _____

(b) (2 points) Find all its asymptotes .



(d) (2 points) Find intervals where $f(x) \ge 0$.

(d) _____

- **2.** Consider $x^2 = 12y$,
 - (a) (2 points) Find its focus.

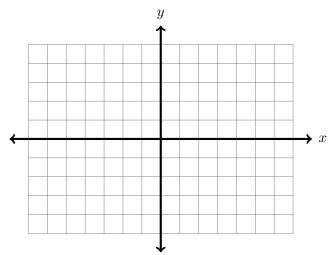
(b) (2 points) Find i	(a)
(c) (2 points) Find a	(b)
(d) (3 points) Graph	(c) n. Draw its axis of symmetry and the directrix. y
•	
Consider $x^2 - 8u$	$- \cdot \cdot$

3. Consider $x^2 = -8y$,

(a) (3 points) Find its focus and directrix.

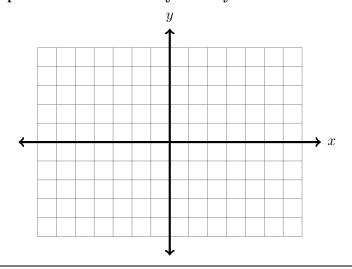
(a) _____

(b) (2 points) Find x for y = -2.



(c) (3 points) Graph. Draw its axis of symmetry and the directrix.

- 4. Consider $y^2 = 16x$,
 - (a) (3 points) Find its focus and directrix.
 - (b) (2 points) Find y for x = 1.
 - (b) _____ (c) (3 points) Graph. Draw its axis of symmetry and the directrix.

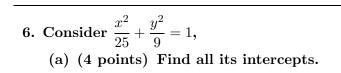


(a) _____

- 5. Consider $y^2 = -8\sqrt{2}x$,
 - (a) (3 points) Find its focus and directrix.
 - (b) (3 points) Find y for $x = -\sqrt{2}$.

(b) _____(b) _____(b) _____(b) _____(b) _____(b) _____(b) _____(b) ____(b) ___(b) __(b) ___(b) ___(b) ___(b) __(b) __(b) ___(b

y ↑



(b) (3 points) Find its foci.

(a) _____

→ x

(a) _____

(b) _____