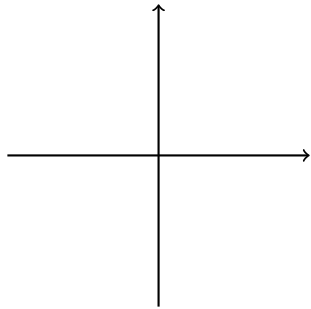


Homework 1 - Math 140

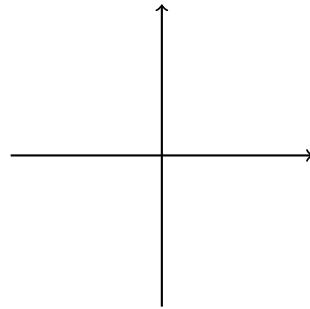
Name: _____

Using the common basic graphs as a reference, sketch the graphs of the following functions. Be sure to label points where the graphs intersect the x or y -axis.

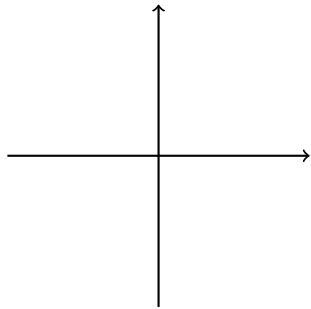
1. $y = \frac{1}{x-3}$



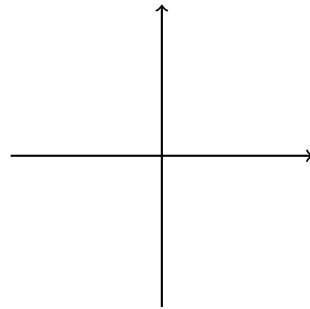
2. $y = \sqrt{x} + 3$



3. $y = \frac{x^2}{4}$



4. $y = -(x+1)^2$



Solve the following equations.

5. $\frac{1}{x-3} = 2$

6. $\sqrt{x} + 3 = 12$

7. $\frac{x^2}{4} = 25$

8. $-(x+1)^2 = -9$

9. $\frac{5}{x} = \frac{2}{3}$

10. $\frac{x}{4-x} = 3$