

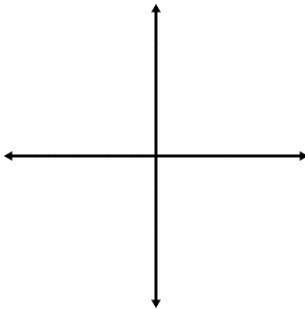
- Adjust the window to view all key features (ZOOM 6 to return to 10 x 10 window)
- Solve or identify all key features listed for each problem
- Sketch a graph

1. Solve for x. $(x - 4)(x + 5)(x - 2) = 88$

2. Solve for x. $\frac{1}{12} + \frac{1}{x} = \frac{1}{4}$

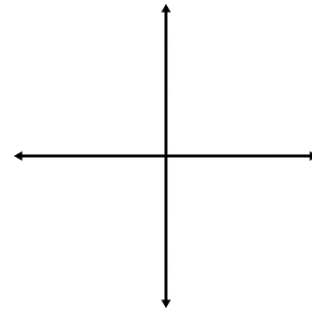
3. $y = x^2 + 2x - 24$

- a. x-intercept(s): _____
- b. vertex: _____
- c. y-intercept: _____



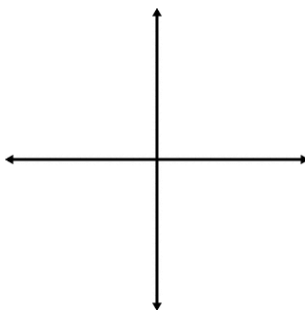
4. $y = -2x^2 - x + 15$

- a. x-intercept(s): _____
- b. vertex: _____
- c. Find the value of y when $x = -2.5$: _____



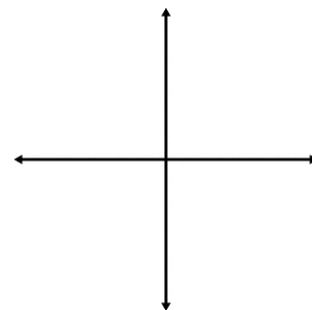
5. $y = x^3 + 2x^2 - 5x - 4$

- a. x-intercept(s): _____
- b. maximum(s): _____
- c. minimum(s): _____
- d. y-intercept: _____



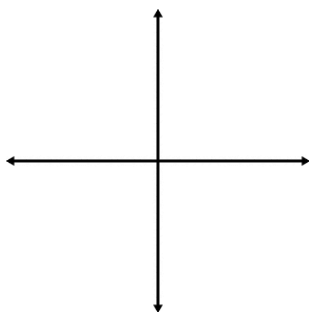
6. $y = x^4 - 6x^3 + 7x^2 + 6x - 8$

- a. x-intercept(s): _____
- b. maximum(s): _____
- c. minimum(s): _____
- d. y-intercept: _____



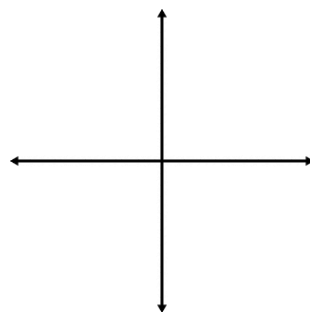
7. $y = -3(x + 5)^2 + 17$

- x-intercept(s): _____
- vertex: _____
- Find the value of y when $x = -12$: _____



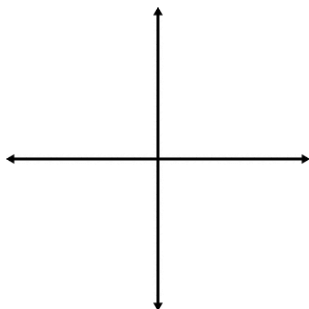
8. $y = 3\sqrt{16 - x} - 7$

- x-intercept(s): _____
- starting point: _____
- y-intercept: _____



9. $y = -\sqrt{x + 8} + 3$

- x-intercept(s): _____
- starting point: _____
- y-intercept: _____



10. $y = \frac{2x+6}{x^2-9}$

- x-intercept(s): _____
- y-intercept: _____
- hole: _____

