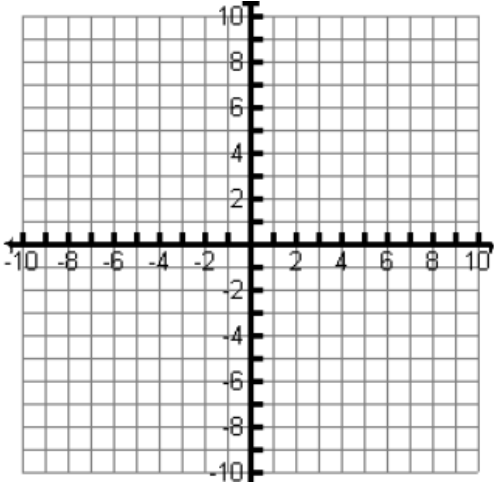Graphing Transformations with Reflections (using parent functions)
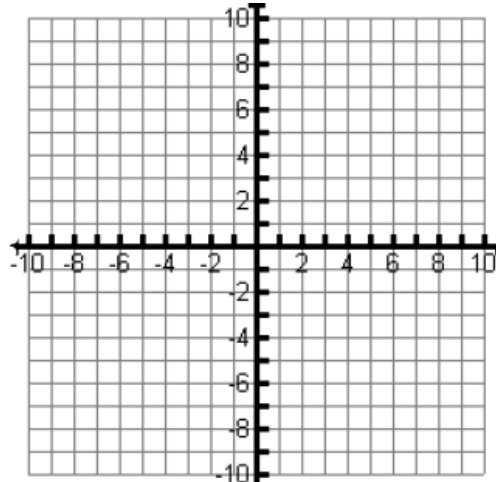
Name: _____ Date: _____ Period: _____

Graph each function listed below without the use of a calculator. Graph with accuracy. Each graph must include at least five plotted points unless they do not fit on the graph.
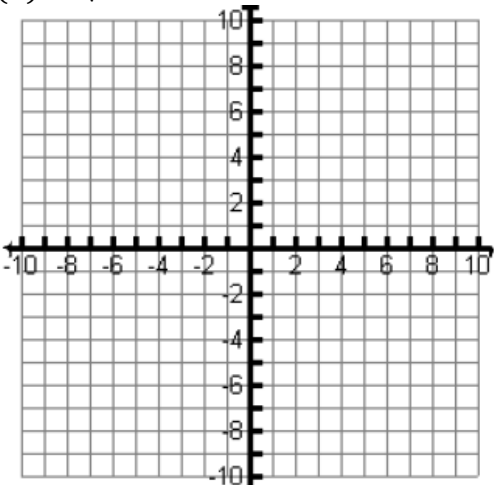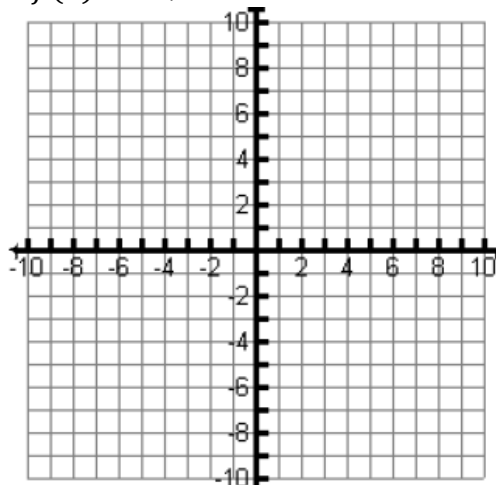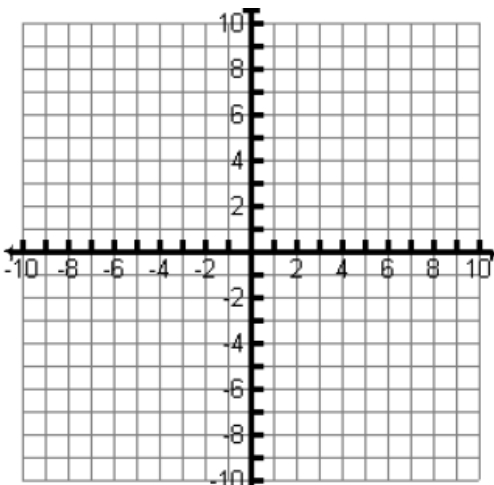
1. $f(x) = -(x+2)^2 + 3$
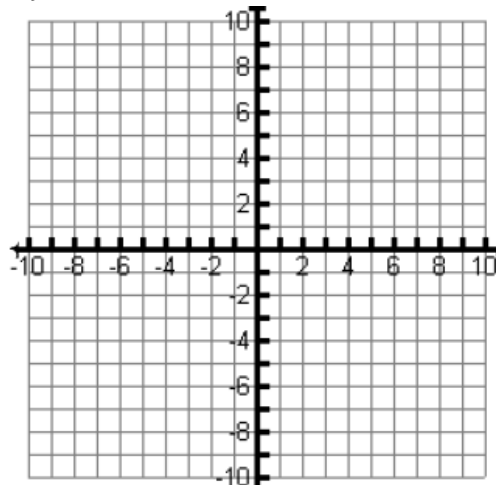
2. $f(x) = (-x-4)^2 - 5$
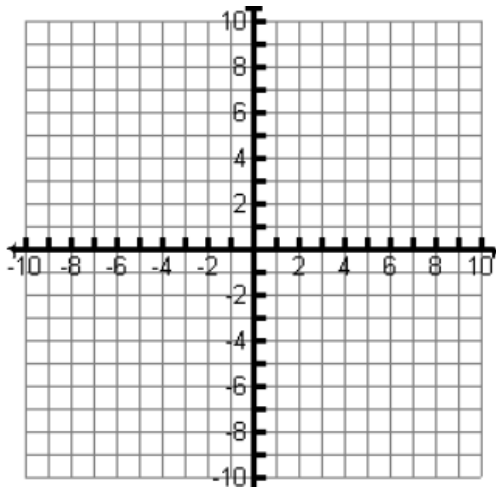
3. $f(x) = \sqrt{-x+2} + 4$

4. $f(x) = -\sqrt{x+5} - 6$

5. $f(x) = -(x+3)^3 + 1$

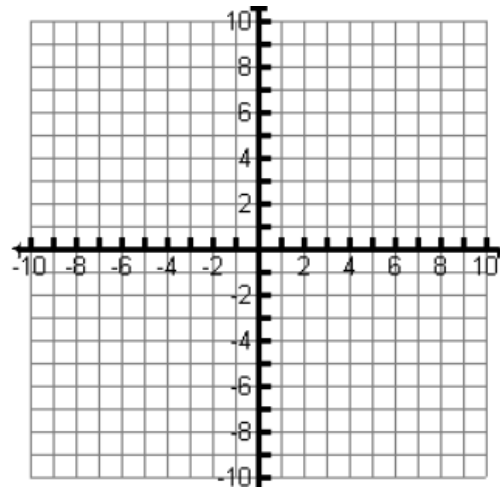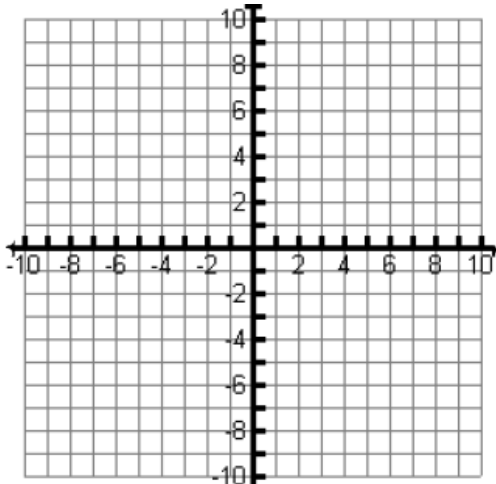6. $f(x) = (-x+3)^3 - 2$
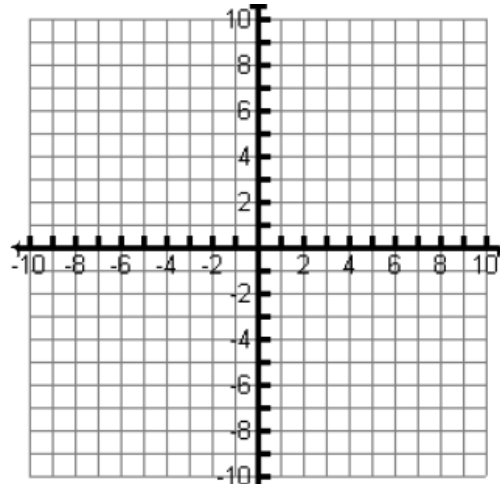
7. $f(x) = -|x + 2| + 9$
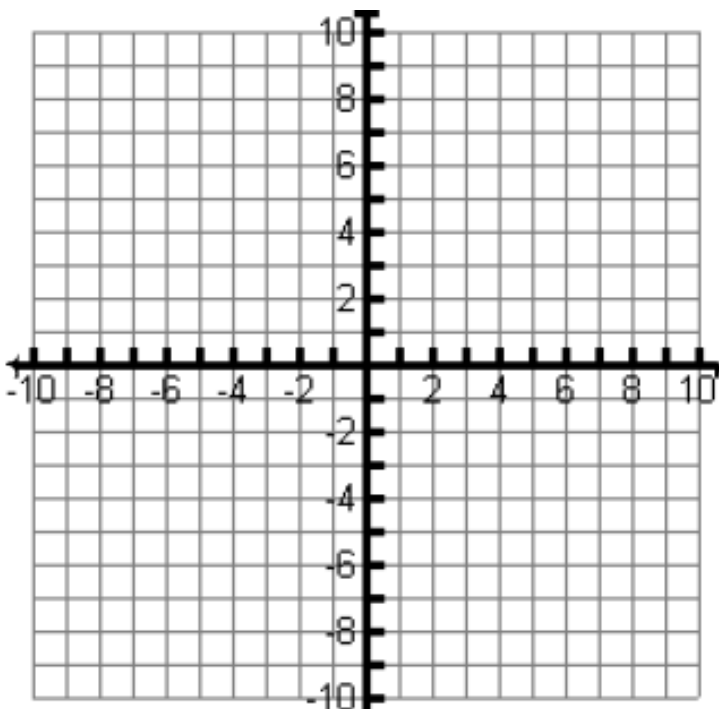
8. $f(x) = |-x - 5| - 7$

9. $f(x) = -\sqrt[3]{x + 1} - 3$

10. $f(x) = \sqrt[3]{-x - 2} + 4$

11. $f(x) = \frac{1}{x+5} + 2$

12. $f(x) = \frac{1}{x-2} - 3$