

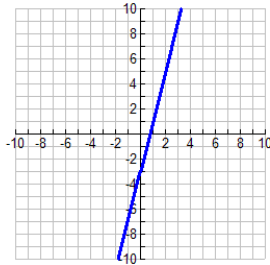
WARM-UP

Even, Odd, or Neither

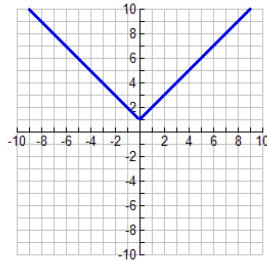
Name: _____

Determine by graphing whether the following functions are even, odd, or neither.

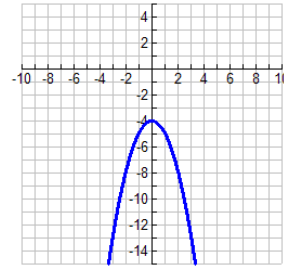
1. $f(x) = 4x - 3$



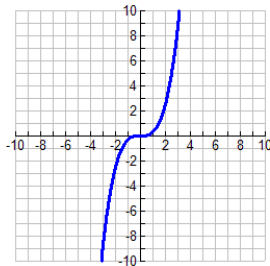
2. $f(x) = |x| + 1$



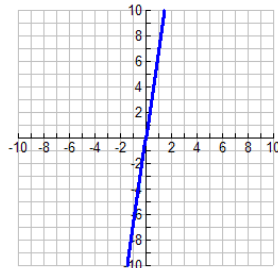
3. $f(x) = -x^2 - 4$



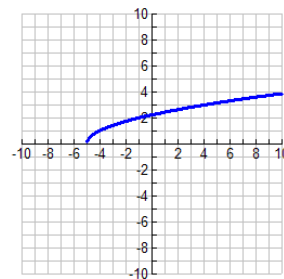
4. $f(x) = \frac{1}{3}x^3$



5. $f(x) = 7x$



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



Determine by replacing $f(-x)$ whether the following functions are even, odd, or neither.

7. $f(x) = 3x^2$

8. $f(x) = x^3 - 2$

9. $f(x) = 3x + 4$

10. $f(x) = x^2 - 5$

11. $f(x) = 10x + 5$

12. $f(x) = 2(x+1)^3$

Functions RECAP

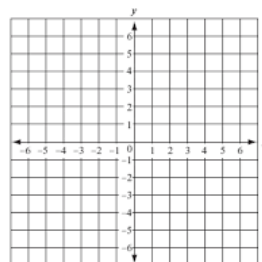
Pre-Quiz

Name: _____

Answer each of the following based on the equation given.

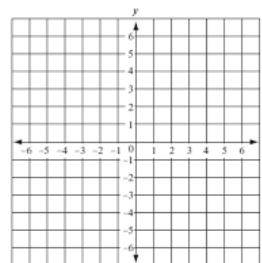
$$y = -\sqrt{3x-2}$$

1. Graph using at least 3 points from the table of values.
2. Vertex: _____
3. Axis of Symmetry: _____
4. Domain: _____
5. Range: _____
6. x-intercept(s) : _____
7. y-intercept: _____
8. Interval of Increase: _____
9. Interval of Decrease: _____
10. End Behavior: $x \rightarrow -\infty$ _____ & $x \rightarrow \infty$ _____
11. Even, Odd, or Neither? How do you know? Prove using two different methods. _____
12. $f^{-1}(x) =$ _____ Is the inverse a function? _____



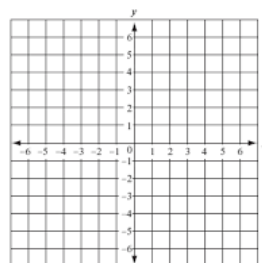
$$f(x) = 2|x + 3|$$

1. Graph using at least 3 points from the table of values.
2. Vertex: _____
3. Axis of Symmetry: _____
4. Domain: _____
5. Range: _____
6. x-intercept(s) : _____
7. y-intercept: _____
8. Interval of Increase: _____
9. Interval of Decrease: _____
10. End Behavior: $x \rightarrow -\infty$ _____ & $x \rightarrow \infty$ _____
11. Even, Odd, or Neither? How do you know? Prove using two different methods. _____
12. $f^{-1}(x) =$ _____ Is the inverse a function? _____



$$f(x) = 7x^3 - 1$$

1. Graph using at least 3 points from the table of values.
2. Vertex: _____
3. Axis of Symmetry: _____
4. Domain: _____
5. Range: _____
6. x-intercept(s) : _____
7. y-intercept: _____
8. Interval of Increase: _____
9. Interval of Decrease: _____
10. End Behavior: $x \rightarrow -\infty$ _____ & $x \rightarrow \infty$ _____
11. Even, Odd, or Neither? How do you know? Prove using two different methods. _____



12. $f^{-1}(x) =$

Is the inverse a function? _____