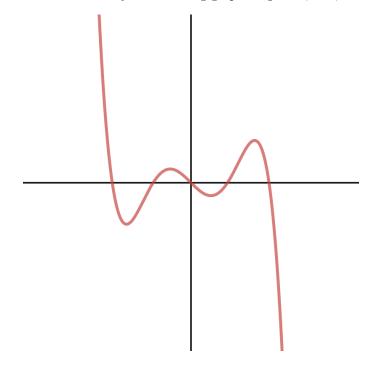
Name: \_\_\_\_\_

## Quiz 1

## Math 111

You have 20 minutes to complete **both sides** of this quiz and upload your work to Canvas. Write your answers on a separate sheet of paper and scan them with a scanning app. When you're finished, first check your work if there is time remaining, then turn it in. You may use a scientific calculator, but not a graphing one. **Show all your work.** 

- 1. (8 points) Let  $f(x) = x^2 + \frac{1}{x^2}$ . Show that f is an even function.
- **2.** (8 points) Let g(x) be a function defined by the following graph. Is g even, odd, or neither? Show all your work.



3. (8 points) Graph the function $y = 3x^3$ by identifying the parent function and the transformation applied to it and then graphing each step.	,