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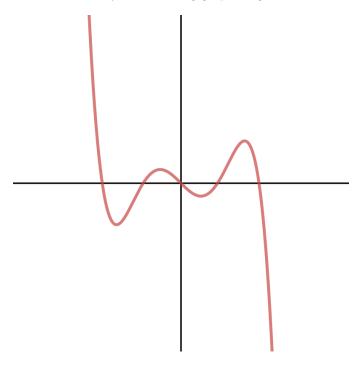
Quiz 1

$Math \ 112$

You have 20 minutes to complete **both sides** of this quiz and turn it in. 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.