Name:

MATH 1513 – College Algebra
Quiz 5 – Ch 2.4

Instructions: Print out this page and turn it in at the beginning of class on Thursday. Show all work. Answers with no work shown will receive no credit.

1. Determine whether the following functions are even, odd, or neither. Show your work.

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

b.) $f(x) = 3x^4 + 2$

c.) $f(x) = x^6 - x^4 + x$

d.) $f(x) = \frac{2x^2-1}{x^4}$

2. Describe how to transform the graph of $f(x) = x^2$ into the graph of $g(x) = -2(x+3)^2 - 5$. (There should be 4 steps.) Then sketch a graph of $y = f(x)$ and $y = g(x)$ on the same Cartesian plane. Clearly label each graph.