

Math 1140F - Fall 2014

Name: _____

Quiz 4 – Take Home

Due: Monday, September 22

1. (3 points) Analyze the graph of $f(x) = (x - 1)^2(x + 3)(x + 1)$ using the steps outlined in class or on page 333 of the textbook. *Mark each step clearly.*

2. (2 points) Using the Rational Zeros Theorem, find all real zeros of the following function. Also state the multiplicity of each zero.

$$g(x) = 4x^3 - 4x^2 - 7x - 2$$