231 Quiz 3

Name: _____

Name: _____

Name: _____

December 4, 2013

Work in groups. You must do all problems together, discussing and agreeing on each answer; do not split up the work. Hand in one copy of the quiz with a very clear, concise writeup. You may use your Notebooks.

1. Use every tool and method at your disposal to make a labeled, detailed graph of the function below. Include the locations of all roots, holes, extrema, and inflection points as well as the explicit equations of any asymptotes, including any slant or curve asymptotes. Also include clearly labeled sign charts for f, f', and f''.

$$f(x) = \frac{x^3 - 3x - 2}{x - 1}$$