MATH 130   QUIZ 7   10/24/2011

Name_____   Section 0242

Answer all problems. There are 10 possible points.

Let $f(x) = 2x^3 + 9x^2 + 12x + 6$.

1) (2pts) Find $f'(x)$.

2) (2pts) Find the intervals in which the function is increasing or decreasing.

3) (2pts) Locate all points where the tangent line is horizontal.

4) (2pts) Find all relative extrema.

5) (2pts) Graph the function.