

Name _____

Section 0251

Answer all problems. There are 10 possible points.

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

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.