Mth 131
October 19, 2000
Montgomery

Quiz 5

Sec._____

1. In an Ohio community, spending on public education was decreasing from 1985-1990, but has been increasing ever since. In 1995, the rate of increase began decreasing and was 0 in 2000. Draw a possible graph representing the spending for public education of this community. What do you think will happen to the budgets of public schools in the coming years? Why?

2. If $f(x) = \frac{x^2}{-3} + \frac{2}{3\sqrt[3]{x}}$, find $f'(x)$.

3. (Bonus) If $f(x) = 3x^2 - x$, its derivative is $6x - 1$. Use the limit definition of the derivative to show this.