Math 241: HW 5

Due on Monday, September 16 Fall~'13

John "Curlee" Robertson

Problem 1

Use the IVT to show that the polynomial $x^3 - x^2 + x - 1$ has a root on the interval [0, 2].

Problem 2

Using the limit definition of the derivative, compute the following derivatives:

$$f(x) = x^{3}$$

$$f(x) = 10x^{2}$$

$$f(x) = x^{2} + x$$

$$f(x) = \sqrt{x}$$

$$f(x) = \frac{1}{x+3}$$