

Math 103, Fall 2014
Week 9

After Class Homework
Due Monday, November 3

1. Consider $g(x) = \frac{x}{x^3-1}$. On the interval $[-2, 0]$, at what value of x does $g(x)$ attain its absolute maximum?
2. On the interval $[0, 4/3]$, what are the absolute minimum and maximum of $x^3 - 2x^2 + x - 1$.
3. Draw a function which is defined on $[-3, 3]$, has a local minimum which is not an absolute minimum at $x = -2$, an absolute minimum at $x = -1$, an absolute maximum at $x = 1$, and a local maximum which is not an absolute maximum at $x = 2$.