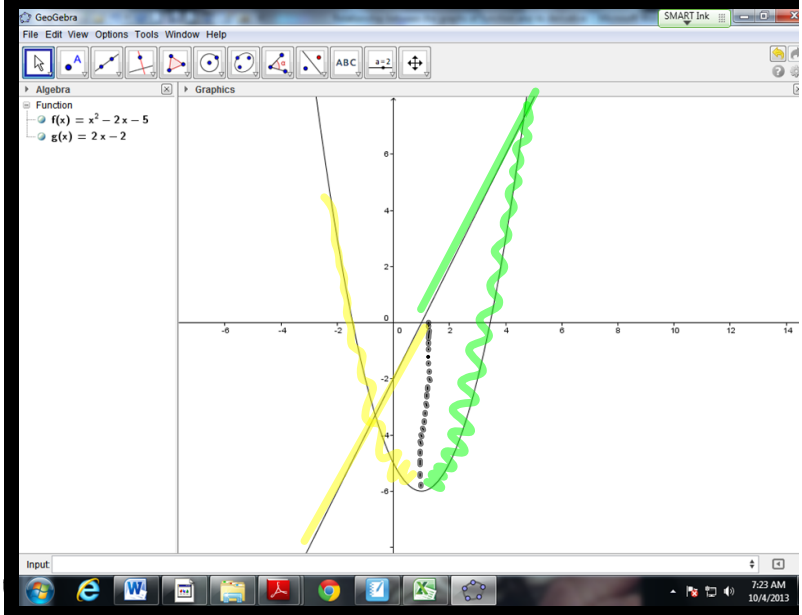
**AP Calculus AB**
**Friday, October 4, 2013**

**Check over yesterday's quiz**




Decreasing $(-\infty, 1)$ Increasing $(1, \infty)$

$f(x)$

$f'(x) < 0$ on $(-\infty, 1)$

$f'(x) > 0$ on $(1, \infty)$

Determine the interval(s) on which $f(x)$ is decreasing, increasing, and/or constant.

$$f(x) = \frac{x^3}{3} + \frac{3x^2}{2} - 10x + 1$$

**When f'(x)<0, f(x) is decreasing.**
**When f'(x)>0, f(x) is increasing.**