Math 1431

Jeff Morgan jmorgan@math.uh.edu 651 PGH Office Hours: 11:00-Noon MWF

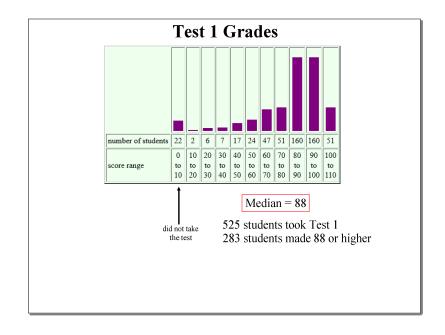
No Office Bould Today

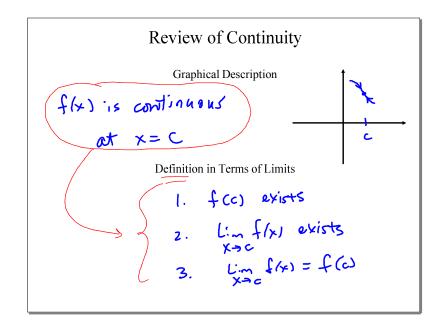
http://www.math.uh.edu/~jmorgan/Math1431 tinyurl.com/math1431 @morgancalculus

Next Monday is an Important Day!

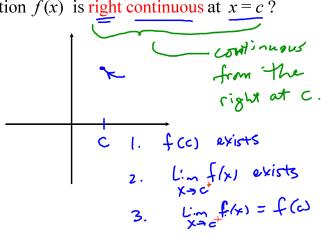
- Homework 2 due in lab/workshop.
- EMCF05 is due online at 9:00am.
- Online Quiz 1 is due at 11:59pm.
- Poppers start in lecture.
- Access Codes are due at 12:01am.

Purchase your Popper forms and Access Code from the UH Bookstore in the University Center.

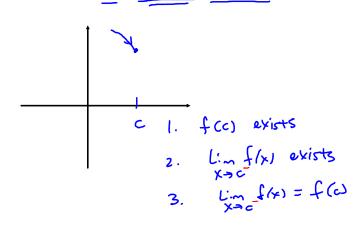




Question: What do you think it means to say that a function f(x) is right continuous at x = c?



Question: What do you think it means to say that a function f(x) is left continuous at x = c?



function f(x) is continuous on an interval?

(1) $[a,b] = \left\{ \begin{array}{c} x \mid a \leq x \leq b \right\} \\ \text{is is left cont. at } x = a \\ \text{if is continuous at each } x = C \\ \text{with } a < C < b. \end{array}$ (2) $(a,b] = \left\{ \begin{array}{c} x \mid a < x \leq b \right\} \\ \text{with } a < C < b. \end{array}$ is continuous at each x = Cwith a < C < b.

Question: What do you think it means to say that a

$$[a,b) = \begin{cases} x \mid a \leq x < b \end{cases}$$
* f is right cont. at x = a

$$(a,b) = \left\{ \times \mid a < \times < b \right\}$$

Functions that are Continuous on their Domains of Definition

polynomials, rational functions, |x|, \sqrt{x} , x' (with $r \neq 0$), $\cos(x)$, $\sin(x)$, $\sec(x)$, $\csc(x)$, $\tan(x)$, $\cot(x)$

An Important Fact Concerning Continuous Functions

Sums, differences, products, quotients and compositions of <u>continuous</u> functions are continuous on intervals on which they are defined.

