August 17 Math 1190 sec. 51 Fall 2016

Second Day of Class

• • • • • • • • • • • •

August 16, 2016

1/9

Today's Agenda

- Questions?
- Any announcements from our SI leader Lauren
- Clicker activities
- Quiz and up coming Exam 1 (part 1) information
- More in class work on prerequisite skills.

Registering a Clicker

At the beginning of class, I will use the "Roll Call" feature. You will see your name and student ID with a three letter code.

- Grab a clicker from my stash at the beginning of class.
- Look for your name with three letter code on the roll call display. (All names won't fit on one screen, so it will alternate between groups.)
- ► Turn the clicker on, and methodically enter your three letter code.
- When your clicker is registered, your name box will turn gray with an ID code in the bottom right corner.
- If you press the wrong code, no worries, just press "DD" (or "DDD").

Clicker Questions Sample Question 1

The line $y = \frac{1}{2}x - 7$ is **perpendicular** to which of the following lines.

(a)
$$y = -\frac{1}{2}x + 7$$

(b) $y = -2x - 3$
(c) $y = 2x + 7$
(d) $y = \frac{1}{2}x + 7$
Perpendicula lines
have regative
reciprocel slopes
here $\frac{1}{2}$ and -2

(e) None of the above

Sample Question 2

Recall that for True/False questions, we'll always use "A" for true and "B" for false.

True/**False** If *f* is a one-to-one function satisfying f(2) = -3, then

$$f^{-1}(-3) = 2$$

True, f(z) = -3 means $f^{-1}(-3) = 2$

August 16, 2016 4 / 9

Sample Question 3

The quadratic equation $x^2 + 2x - 3 = 0$ (x+3)(x-1)=0

(a) has solutions x = 3 and x = -1

- (b) has solutions x = -3 and x = 1
- (c) has solutions x = 2 and x = -3

(d) has no real solutions.

x+3=0if x=-3if x-1=0if x=1

August 16, 2016 5 / 9

イロト 不得 トイヨト イヨト ヨー ろくの

Sample Question 4

Suppose θ is an angle in standard position, and that

 $\sin \theta < 0$ and $\tan \theta > 0$.

The terminal side of θ must be in quadrant

(a) I (one)
(b) II (two)
(c) III (three) ▲
(d) IV (four)
Sin Ø < 0 in qual 3, 4
tra Ø > 0 in qual 3, 4

(e) can't be determined without more information

э

First In Class Quiz: Friday 8/19

We'll have our first in class quiz this Friday at the beginning of class. It should begin within the first 5 minutes or so of class and will last for 10 minutes.

The quiz question(s) will come **directly** from the Algebra and Trig Review Math 1190 Worksheet 1.

> Algebra and Trig Review Math 1190 Worksheet 1

NO CALCULATORS on these, unless you want to use them to CHECK your work.

Question 1. First some algebra...

(a) Simplify:

$$\left(\frac{3x^{3/2}y^3}{x^2y^{-1/2}}\right)^{-2}$$

(b) Simplify:

 $x^2 = x + 1$, $\frac{y}{x} - \frac{x}{y}$

イロト 不得 トイヨト イヨト

August 16, 2016

7/9

When: Wednesday August 24 from 8:05am-8:30am (25 minutes)

What: This exam will make up 35% of Exam 1 for the semester. It will cover prerequisite topics: Algebra, trigonometry, and function basics. Worksheets 1 and 2 on D2L (and in class) cover this material.

Why: The two main causes of poor performance in Calculus are (1) prerequisite weakness, and (2) insufficient effort. Week 1 is the time to hone those prereq skills and position yourself for success in this class.

Questions?

< □ > < 部 > < 差 > < 差 > 差 の Q (*) August 16, 2016 9 / 9