## August 17 Math 1190 sec. 51 Fall 2016

## Second Day of Class

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) $y=-2 x-3 \longleftarrow$
(c) $y=2 x+7$
perpendicular lines
have negative
reciproce slopes
(d) $y=\frac{1}{2} x+7$
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

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

$$
\begin{aligned}
& \text { True, } f(2)=-3 \text { means } \\
& \qquad f^{-1}(-3)=2
\end{aligned}
$$

## Sample Question 3

The quadratic equation $\quad x^{2}+2 x-3=0$

$$
(x+3)(x-1)=0
$$

$$
\begin{aligned}
& x+3=0 \\
& \text { if } \quad x=-3
\end{aligned}
$$

(a) has solutions $x=3$ and $x=-1$
(b) has solutions $x=-3$ and $x=1$ \&-

$$
\begin{gathered}
x-1=0 \\
i f \\
x=1
\end{gathered}
$$

(c) has solutions $x=2$ and $x=-3$
(d) has no real solutions.

## Sample Question 4

Suppose $\theta$ is an angle in standard position, and that

$$
\sin \theta<0 \text { and } \tan \theta>0 .
$$

The terminal side of $\theta$ must be in quadrant
(a) I (one)
(b) II (two)

$$
\begin{aligned}
& \sin \theta<0 \text { in quad } 3,4 \\
& \tan \theta>0 \text { in quad } 1,3
\end{aligned}
$$

(c) III (three) $\downarrow$

$$
\begin{aligned}
& \text { So for both to } \\
& \text { be true } \theta
\end{aligned}
$$

(d) IV (four) is in
$q \operatorname{sad} 3$
(e) can't be determined without more information

## 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:

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

(b) Simplify:

$$
x^{2} \quad x+1
$$

$$
\frac{y}{x}-\frac{x}{v}
$$

## Exam 1 part 1

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?

