

# MA 109: August 22

Syllabus and Coordinate Plane

## Start of Class

### Instructor Information

Name:

Email:

Office Hours:

## Syllabus and Technology Setup

We have homework due on Tuesdays and Fridays (digital on WeBWork through Canvas)

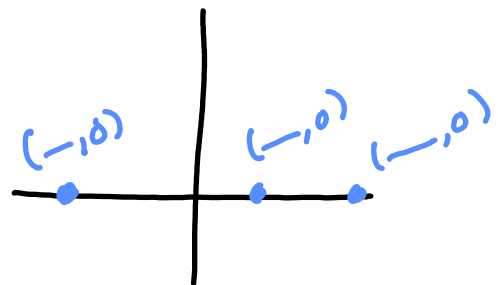
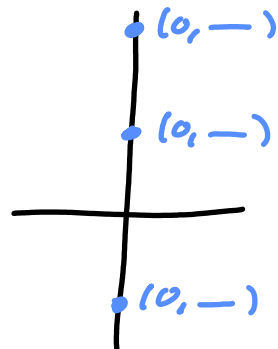
We have preview assignments due on Thursdays (digital on WeBWork through Canvas, use the Textbook to complete them)

No exams! But lots of quizzes. We will discuss more details about the quizzes when we get closer to the first one.

Here is how attendance and participation are graded:

# Notes

## Finding Intercepts

x-intercepts	y-intercepts
<p>on the x-axis</p>  <p>y-coordinate is always 0</p> <p>Strategy: plug in <math>y=0</math> and solve for x</p>	<p>on the y-axis</p>  <p>x-coordinate is always 0</p> <p>Strategy: plug in <math>x=0</math> and solve for y</p>

Don't forget to write as a point

Example: Find the x- and y-intercepts of  $y = 3x^2 - 12$ .

x-int

$$y = 3x^2 - 12$$

$$0 = 3x^2 - 12$$

$$+12 \quad +12$$

$$\frac{12}{3} = \frac{3x^2}{3}$$

$$\pm\sqrt{4} = \sqrt{x^2}$$

$$\pm 2 = x$$

$$(2, 0) \text{ and } (-2, 0)$$

y-int

$$y = 3x^2 - 12$$

$$y = 3(0)^2 - 12$$

$$y = 3(0) - 12$$

$$y = 0 - 12$$

$$y = -12$$

$$(0, -12)$$

## End of Class

Write a summary of what you learned today:

What questions do you have about the material from today?

What do you need to do between now and the next class meeting?