MAT 222-840 **Discussion Questions for Chapter 3** Summer 2017

Due: 6/5/17 at 4:00PM

Instructions: Your answers to the following questions do not need to be lengthy or written in complete sentences, but should reflect preparation for our discussion about Chapter 3 at the beginning of class.

Questions:

1. True or false: Any two lines either intersect or are parallel. Explain.

2. What are the names for the four kinds of angle pairs that are formed when two lines are intersected by a transversal?

3. Complete this sentence in three different ways:

   If two lines and a transversal form _____angles that are congruent, then the lines are parallel.

4. If two lines are cut by a transversal and corresponding angles are not congruent, what can you conclude?

5. Complete the following sentence in two different ways:

   Through a point not on a line, there is one and only one line _____ to the given line.

6. Which postulates are necessary for the constructions in section 3.5 to work?

7. Does it matter which two points on a line you use to calculate its slope?

8. How would you find the slope of the line with equation $5x - 2y = 10$?

9. For what type of line is it impossible to write an equation in slope-intercept form or point-slope form? Explain.

10. How can you write the equation of the line $y = 5$ in slope-intercept form? What are the slope and y-intercept of this line?

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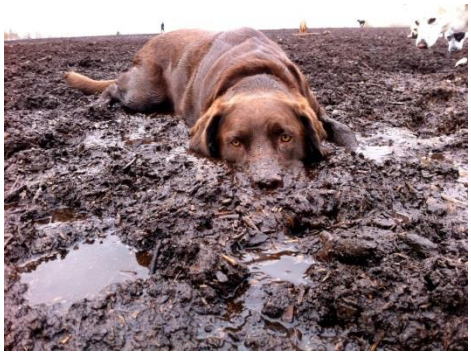
Muddiest Point:

What questions do you have about the notes you took in Chapter 3, or anything from this week?



MML Homework Questions:

Are there any MML homework problems from Chapter 3 that you would like to discuss?