Monday, August 6, 2012

TISK Problems (Warm-Ups)

- 1. Solve for x: 3x 9 = 2(x + 4)
- 2. Find the exact distance between the given points: A(5, 9) and B(-6, 22)
- 3. Write the quadratic formula and explain when you would use it to solve for x.

Pass in Your Homework

- Remember to pass homework in towards the center aisle.
- Leave the homework in an organized stack on your table and I will pick it up.



- This chapter will introduce you to Geometry.
- You will learn some fundamental theorems which will be used throughout the rest of the year.
- The concept you learn in this section will be deceptively easy, so make sure you are focused on truly understanding the idea and not just "how to get an answer".

Lesson 1: Integration with Algebra

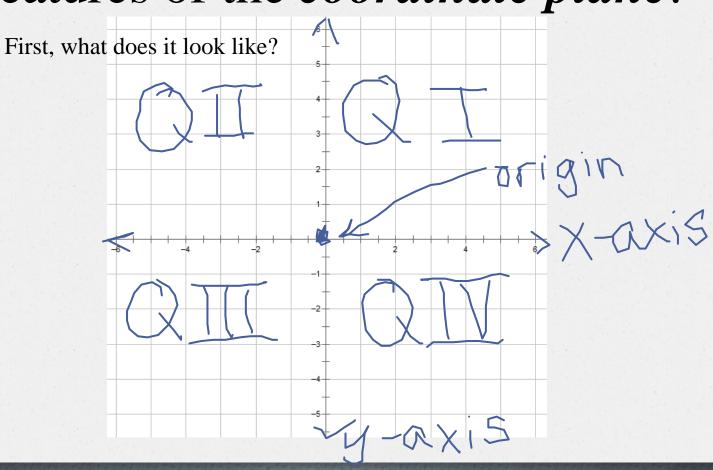
In this lesson we'll

Review how to graph ordered pairs on a coordinate plane

And

- Identify collinear points.
- O Discussion:
 Why do you think these are important ideas?

Let's label some of the important features of the *coordinate plane*.



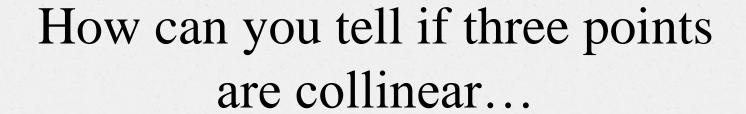
Discussion: What are ordered pairs and how do you use them?

A pair of x-and uvalues representing a specific point on the coordinate plane.

What do you think the word "collinear" means?

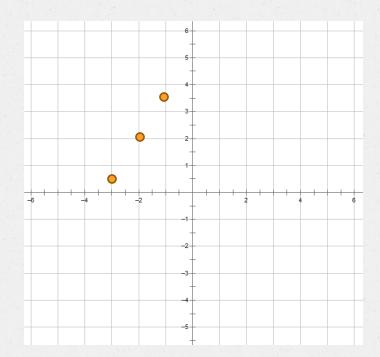
Definition: Collinear

- Collinear points are two (or more) points that lie on the same line.
- Corollary definition: noncollinear points are two (or more) points that do NOT lie on the same line.
- Any two points are always collinear since a line may be drawn between them.



...given a graph?





- o A(-1, 6)
- $\bullet B(0,3)$
- \circ C(2, -4)

Ways to Determine Collinear Points Given a Graph

Draw a Straight line through all 3. E

You must specify that collinear points have the same slope through *any two* points.

Ways to Determine Collinear Points Given Their Coordinates

The slope of the line between any 2 points is the same.

Homework

- o p. 10 #26-36 even & 37
 - You will need graph paper to complete this assignment.
 - If you don't have graph paper, there is printable graph paper on my website under the Helpful Links section.