Tuesday, August 7, 2012

TISK Problems

- 1. Find the midpoint of the segment with the endpoints A(5, 8) and B(-62, 24).
- 2. Factor the expression: $5x^2 + 25x + 30$

Have your paper ready for 3 Mental Math questions today.

Homework Check

26)(-5,4)(28)(3,0)30)(0, -2)32) Sample Answer: (-1, 4), (0, 5), (1, 6)(-1, 5)

34) Sample Answer: (-1, 2), (0, 3.5), (1, 5)



(36 & 37 on next slide)

Homework Check

36) Sample answer:

Draw a pentagon and use its sides as intersecting lines. The vertices would form a set of 5 points that are noncollinear.



37) Sample answer: Since y = 3x + 5 and y = -2x - 10, let 3x + 5 = -2x - 10. Once you solve for x, you get x = -3. Therefore, y = -4. The ordered pair (-3, -4) is then the intersection of the two lines since it is the only point they have in common.

Today's Lesson Goals

- Identify points, lines,Define coplanar. and planes.
- Learn to name points, lines, and planes using the proper notation.

Points, Lines, and Planes

Define

Point

Line

Plane

Space

• Kind of difficult?

Let's take a look at the way points and lines intersect in space...

Notation, notation, notation!

There are a few proper ways to <u>name a line</u>.
This line is called line *RS*.

• We can write this line using the notation:

R

 $\stackrel{\bullet}{RS} \stackrel{\bullet}{SR} \stackrel{\bullet}{SR}$

Why do you think the order of the letters doesn't matter?

S

Notation, notation, notation!

• Here is a representation of plane *M*:



- If we add points to the plane, we must add at least three to give it a different name.
- Now we can call this plane *ABC*, *BCD*, *CDA*, etc.
- O Do you think the order of the letters matters when you name a plane?

Coplanar

• What does it mean to be "coplanar"?

Homework

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