Find new seats! Try to not repeat any group members from the past two times, and definitely don't repeat group members from the last seating arrangement.
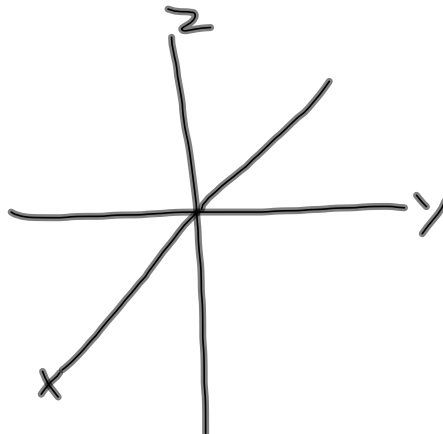
Warm Up:

A restaurant sells soups, salads, and sandwiches. For each soup they sell they make $2. For every salad they sell they make $3.50. And for each sandwich they sell they make $4. The owner wants to make $600 in one day. Define your variables and write the linear equation that represents this situation.
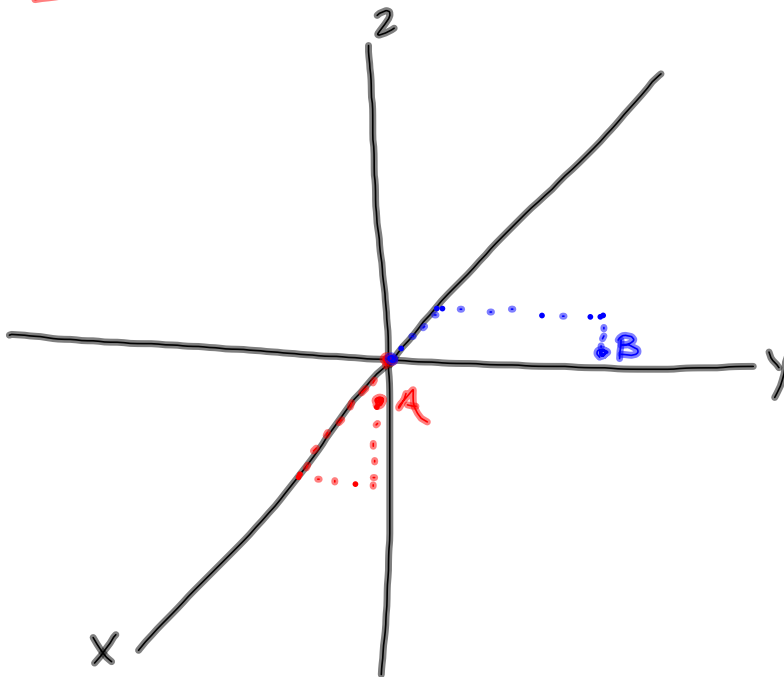
$$2x + 3.50y + 4z = 600$$

3-5: Equations in 3 Dimensions

Graphing points: First plot the coordinate grid. Then let the points be steps. Use a dashed line to show the movement of your point.
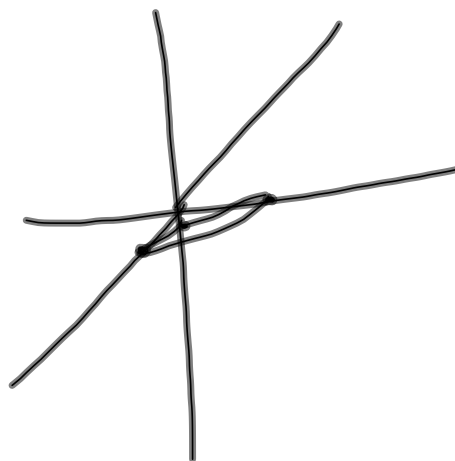
Ex: Plot A(3,2,3) and B(-2, 4, -1)

When given a linear equation find all the intercepts, plot the intercepts and then connect them to form a plane.

Plot: 3x + 2y - 6z = 6

X = 2
Y = 3
Z = -1

If given a story problem, define your variables and then write out the equation given the information (think warm up)

3-6: Linear Systems in 3 Dimensions

Before you can do anything you need to eliminate one of the three variables. Once that variable is gone you will have a system with 2 variables. Then use substitution or elimination to solve.

$$\begin{cases} -x + y + 2z = 7 \\ 2x + 3y + z = 1 \\ -3x - 4y + z = 4 \end{cases}$$

Any other questions before the quiz?

When you are finished you can start your review assignment. This is not due tomorrow but will be collected the day of the test.

p. 213 #1-19
p. 229 # 1-16