Name: **Seat:**_____
Section:

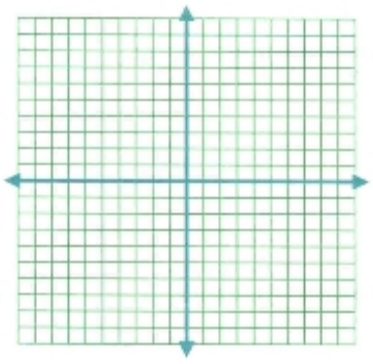
Quiz 2 – Makeup

Be sure to show all work.

1. Solve the following linear inequality: $\frac{5x+2}{3}+6 \le 2x-\frac{3(x-1)}{2}$

2. Clarice is planning to buy Russell a new XBOX 360 with a game for his birthday. The store she is shopping at charges $199 for the XBOX, $59 for the game, and a 8.25% sales tax. What is the total price for the XBOX and game?

3. Sketch the graph of $2x+4y=-4$, then plot and label the x and y intercepts.



4. Find the linear equation in slope-intercept form of the line containing the points (-6,-2) and (3,4).

5. Leah and Pete make handmade wooden chairs. It costs $1000 to make 7 chairs in a week and $1800 to make 15 chairs in a week.

    a. Find the linear equation for cost in dollars per week (C) in terms of number of chairs made (x).

    b. What does the y-intercept represent?

    c. What does the slope represent?