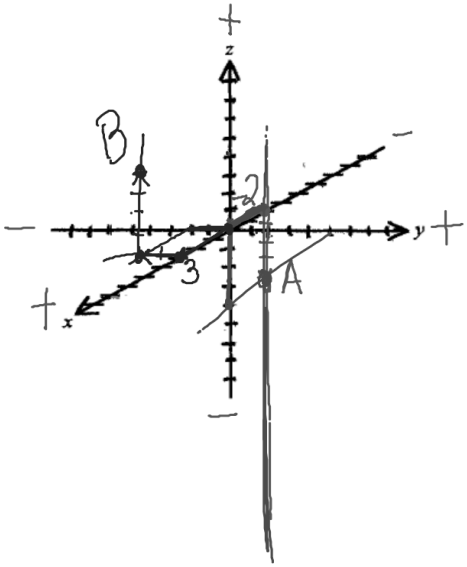
Algebra 2/Trig H Section 3.5 Notes Date_____

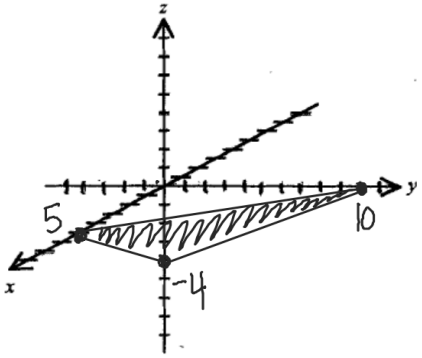
1. Graph the ordered triples A(-2, 0, -4) and B(3, -2, 4)

x, y, z



2. Sketch the graph of $4x + 2y - 5z = 20$.

x-int (5, 0, 0)
y-int (0, 10, 0)
z-int (0, 0, -4)



C

3. Igor's parents pay him a base allowance of $10 per week and $4. per hour for extra chores he completes. Mr. Spencer pays Igor $6 per hour to lifeguard at the city pool.
Write an equation that models Igor's total weekly income.

$$T = 4C + 6L + 10$$

x, y

4. Write $10x - 3y + 12z = -60$ as a function of x and y. Evaluate the function for f(-12, 8).

$f(x) = mx + b$
$y = mx + b$

$10x - 3y + 12z = -60$
$\frac{10x - 3y + 60}{-12} = \frac{-12z}{-12}$

$f(x,y) = -\frac{5}{6}x + \frac{1}{4}y - 5$

$f(-12, 8) = -\frac{5}{6}(-12) + \frac{1}{4}(8) - 5 = 7$