Today's Plan:

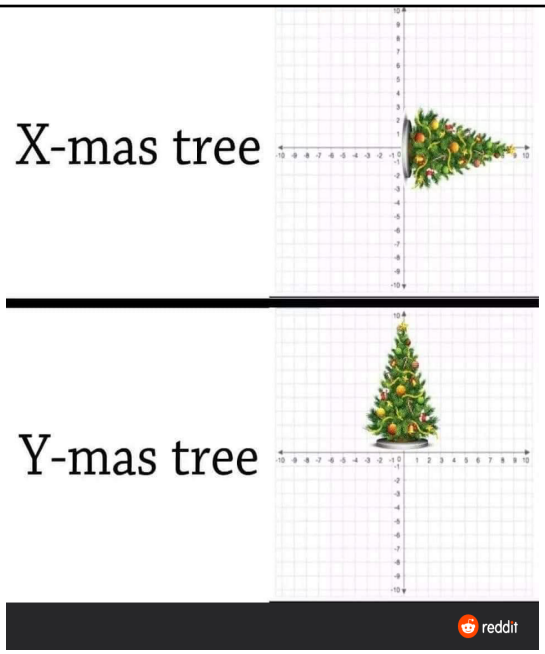
Learning Target (standard): I will review for the semester exam.

Students will: Complete practice problems over previous concepts at the boards and study for my exam.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuarcy and provide students feedback, describe and provide examples of exam problems.

Assessment: Board work

Differentiation: Students will work at the board, actively engage in practice review concepts with the aid of other students and the teacher.



And "coordinating" wrapping paper is a plus!

NAME _____ #76

BELL RINGER

1.) Find the y-intercept of the equation $x + 3y = 4$.

$I_y: (0, \frac{4}{3})$ $3y = -x + 4$ $y = -\frac{1}{3}x + \frac{4}{3}$ $0 + 3y = 4$ $3y = 4$ $y = \frac{4}{3}$

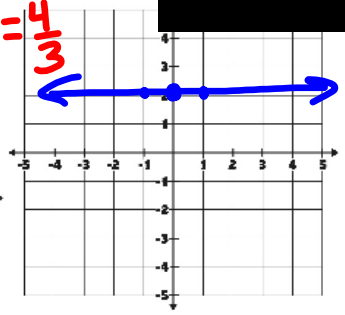
2.) Solve the equation $2(x - 1) = -3x + 4$.

$2x - 2 = -3x + 4$ $5x - 2 = 4$ $5x = 6$ $x = \frac{6}{5}$

3.) Graph the line $y = 2$.

$m = 0$ $I_y: (0, 2)$

x	y
-1	2
0	2
1	2



) The county fair is a popular field trip destination. This year the senior class at High School A an senior class at High School B both planned trips there. The senior class at High School A rented filled 3 vans and 12 buses with 411 students. High School B rented and filled 14 vans and 6 bus with 318 students. Every van had the same number of students in it as did the buses. Find the number of students in each van and in each bus.

① x = # of students in a van
y = # of students in a bus

② $3x + 12y = 411$
$(14x + 6y = 318) \cdot 2$

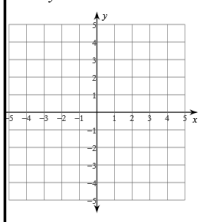
③ $3x + 12y = 411$
$-28x - 12y = -636$
$-25x = -225$
$x = 9$

$27 + 12y = 411$
$12y = 384$
$y = 32$

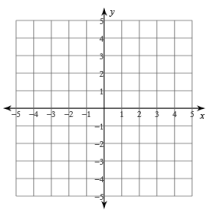
∴ Each van held 9 students & every bus held 32 students.

etch the solution to each system of inequalities.

) $x + 2y < -2$
$2x + y \geq 2$



37) $2x + y < 3$
$2x + y \geq 1$



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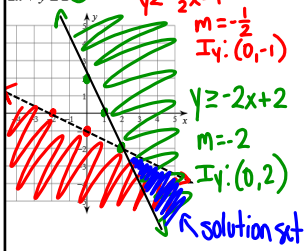

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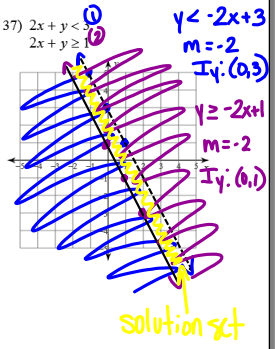
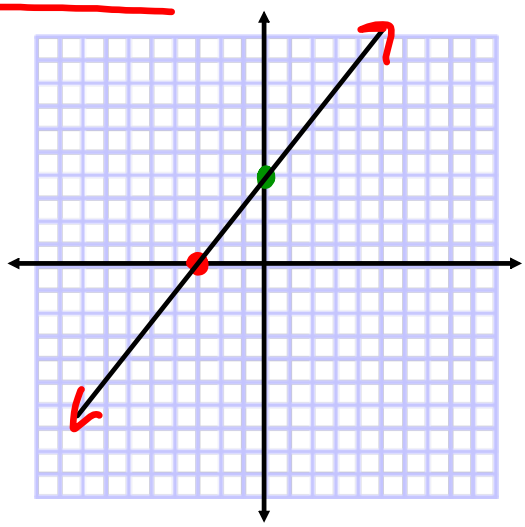


Graph using the intercept method.

$$4x - 3y = -12$$

$I_x: (-3, 0)$ $4x = -12$, $x = -3$

$I_y: (0, 4)$ $-3y = -12$, $y = 4$

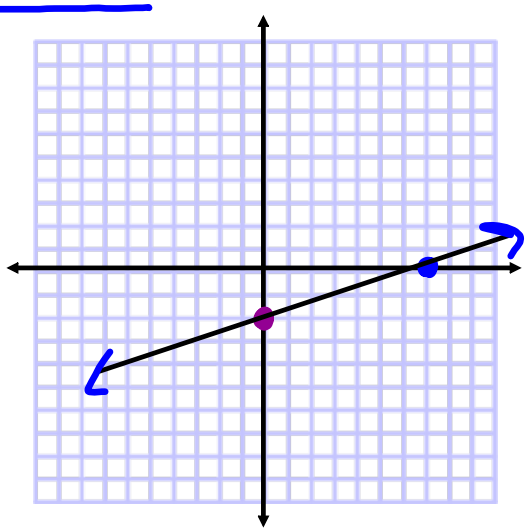


Graph using the intercept method.

$$-2x + 7y = -14$$

$I_x: (7, 0)$ $-2x = -14$, $x = 7$

$I_y: (0, -2)$ $7y = -14$, $y = -2$



Write the equation of the line in standard form.

$thru(-2, 3)$ (x, y) $m_{\parallel} = \frac{2}{3}$ parallel to $2x - 3y = 6$

$-3y = -2x + 6$

$y = \frac{2}{3}x - 2$

$m = \frac{2}{3}$

$y = mx + b$

$3 = \frac{2}{3}(-2) + b$

$3\left[3 = -\frac{4}{3} + b\right]$

$9 = -4 + 3b$

$13 = 3b$

$b = \frac{13}{3}$

$y = \frac{2}{3}x + \frac{13}{3}$

$-3\left[-\frac{2}{3}x + y = \frac{13}{3}\right]$

$2x - 3y = -13$