Today's Plan:

Learning Target (standard): I will review linear equations and linear inequalities and describe their solution sets.

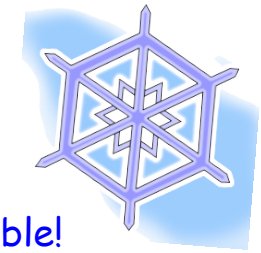
Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, and complete practice problems.

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

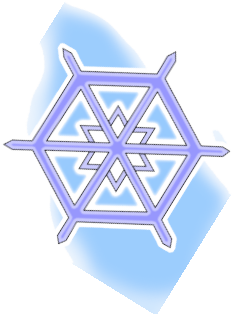
Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, and actively engage in review problems.

p.302 #2-26 even



Go over your graphs with someone at your table!



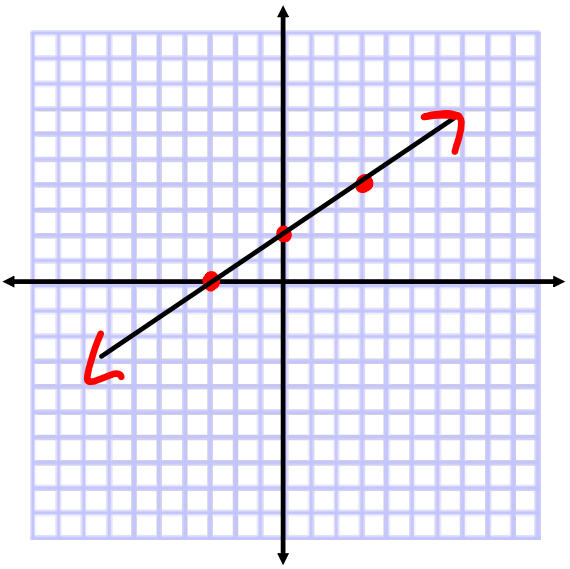
Graph using a *t*-chart.

$$-4x+6y=12$$

$6y=4x+12$

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

x	y
-3	0
0	2
3	4



Graph using the slope-intercept method.

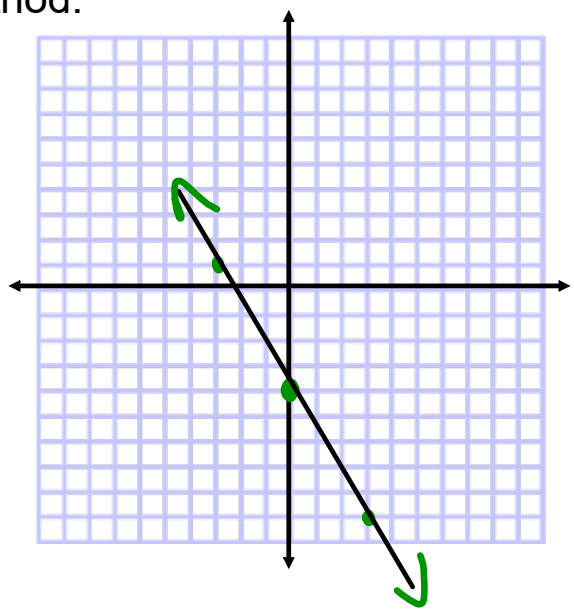
$$5x+3y=-12$$

$3y=-5x-12$

$y=-\frac{5}{3}x-4$

$m=-\frac{5}{3}$

$I_y: (0,-4)$



Graph.

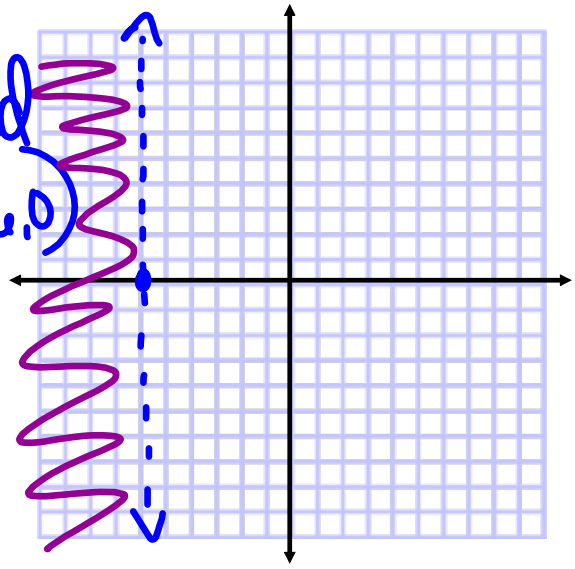
$3\left[-\frac{5}{3}x > 10\right]$

$-5x > 30$

$x < -6$

m = und

I_x: (-6, 0)



Graph using the intercept method.

$y = \frac{2}{5}x + 4$

I_x: (-10, 0)

$0 = \frac{2}{5}x + 4$

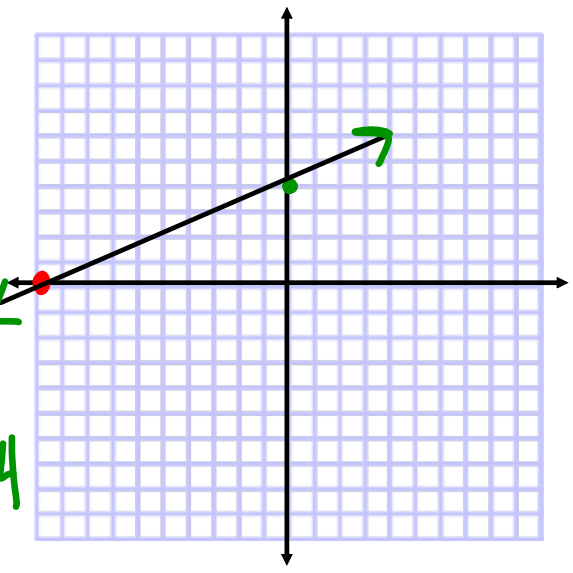
$-4 = \frac{2}{5}x$

$x = -10$

I_y: (0, 4)

$y = \frac{2}{5}(0) + 4$

$y = 4$



Write the equation for the line with the given.

$P_1(-2,4)$

$P_2(6,-8)$

$m = \frac{y_2-y_1}{x_2-x_1} = \frac{-8-4}{6+2} = \frac{-12}{8}$

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

$y = mx+b$

$4 = -\frac{3}{2}(-2)+b$

$4 = 3+b$

$b = 1$

$\boxed{y = -\frac{3}{2}x+1}$

Write the equation for the line with the given.

$P_1(3,-1) \perp 2x-5y=9$

$-5y = -2x+9$

$y = \frac{2}{5}x - \frac{9}{5}$

$m = \frac{2}{5}$

$m_\perp = -\frac{5}{2}$

$y = mx+b$

$-1 = -\frac{5}{2}(3)+b$

$-1 = -\frac{15}{2}+b$

$b = \frac{13}{2}$

$\boxed{y = -\frac{5}{2}x+\frac{13}{2}}$

$2\left[\frac{5}{2}x+y=\frac{13}{2}\right]$

$\boxed{5x+2y=13}$

Graph.

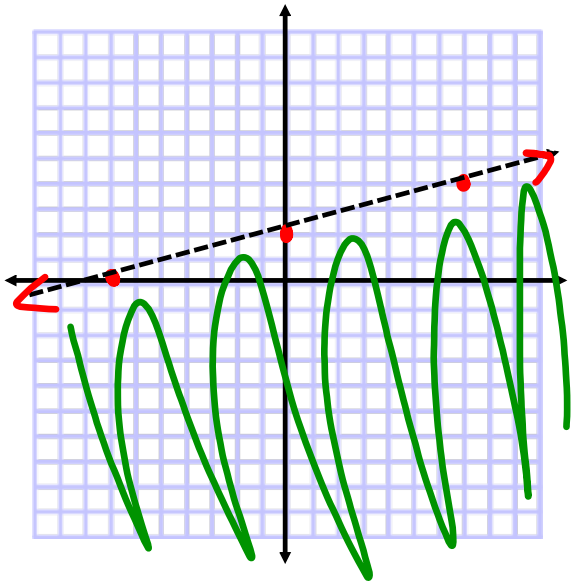
$$2x - 7y > -14$$

$-7y > -2x - 14$

$y < \frac{2}{7}x + 2$

$m = \frac{2}{7}$

$I_y: (0,2)$



Write the equation for the line with the given.

$P(7,12) \parallel 6x - 7y = 8$

$m = \frac{6}{7}$

$y = mx + b$

$12 = \frac{6}{7}(7) + b$

$12 = 6 + b$

$b = 6$

$-7y = -6x + 8$

$y = \frac{6}{7}x - \frac{8}{7}$

$m = \frac{6}{7}$

$y = \frac{6}{7}x + 6$

Slope-intercept

$-7\left[-\frac{6}{7}x + y = 6\right]$

$6x - 7y = -42$

standard

Assignment:

p.310 #1-18,20

* TEST tomorrow! *