

# Linear Equations and Inequalities



## Slope-Intercept Form

$$\begin{aligned}4x + y &= 3 \\4x - 4x + y &= -4x + 3 \\y &= -4x + 3\end{aligned}$$

I. Solve for y.

1.  $x + y = 3$

2.  $2x - y = 7$

3.  $-6 + 2y = 10x$

4.  $3y - 6x + 12 = 0$

$$\begin{aligned}9x - 3y &= -6 \\y &= 3x + 2 \\m &= \frac{3}{1} \\y_0 &= 2\end{aligned}$$

II. Solve for y, state the m and  $y_0$ .

5.  $2y - 6x = 2$

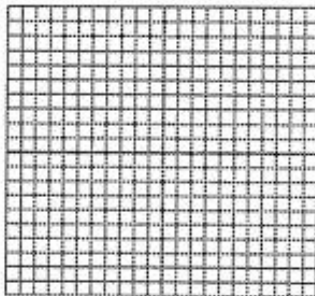
6.  $y - 4x = -3$

7.  $4y = 5x + 12$

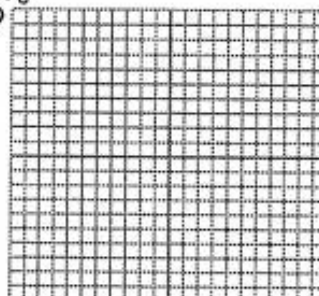
8.  $2x - 3y = 5$

III. Graph the line by 1.) solving for y 2.) using m and  $y_0$ .

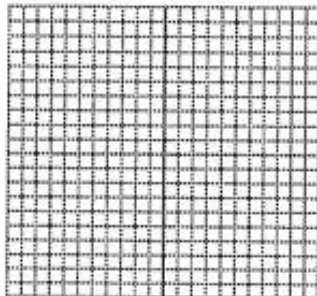
9.  $4x + y = -8$



10.  $y - 3x = -9$



11.  $2x - 4y = -16$



12.  $3x + 3y + 4 = 0$

