

Step 1: For the following equations, manipulate the terms to get "y" on one side of the equation by itself. Think in terms of getting 0's and 1's for coefficients.

Step 2: Identify the slope and y-intercept.

Step 3: Graph

1. $3x + 4y = 20$ STEP 1 SOLVE FOR y!
 $\quad \quad \quad -3x \quad -3x$

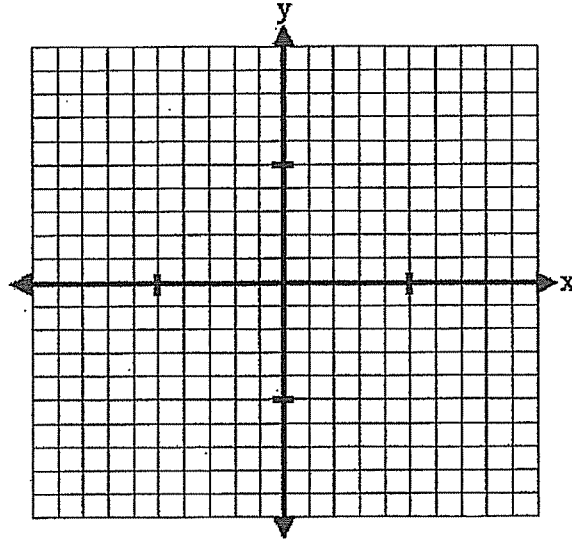
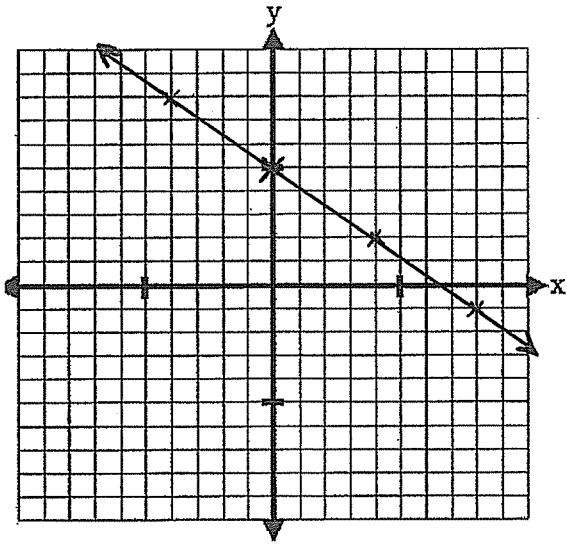
$\frac{4y}{4} = \frac{-3x + 20}{4}$ (NOT LIKE TERMS!)

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

Slope = $-\frac{3}{4}$ Y-Intercept = $(0, 5)$

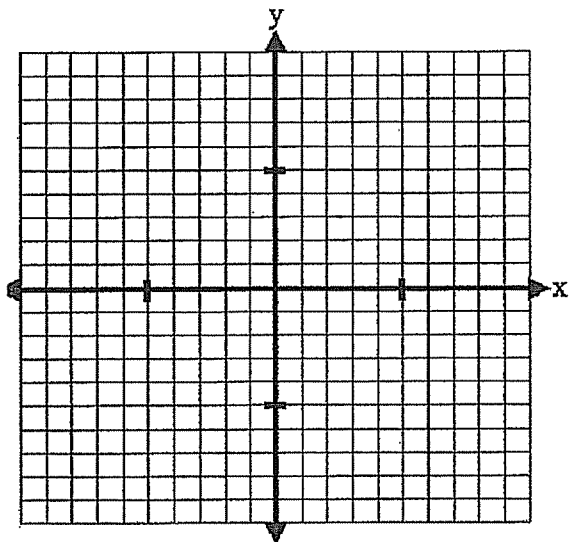
2. $-2x + 5y = 15$

Slope = _____ Y-Intercept = _____



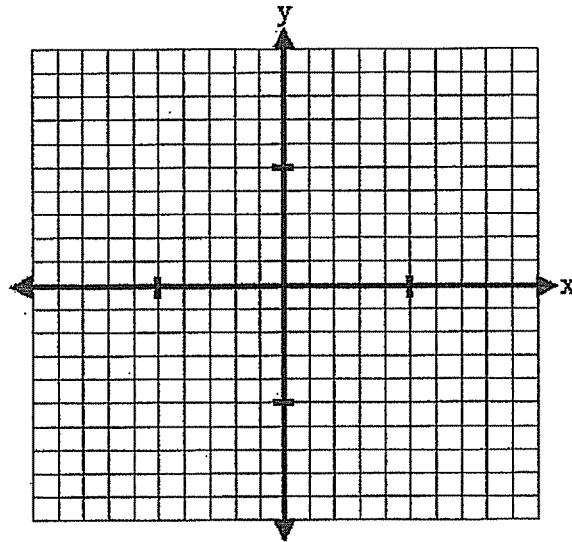
3. $6x - 3y = -18$

Slope = _____ Y-Intercept = _____



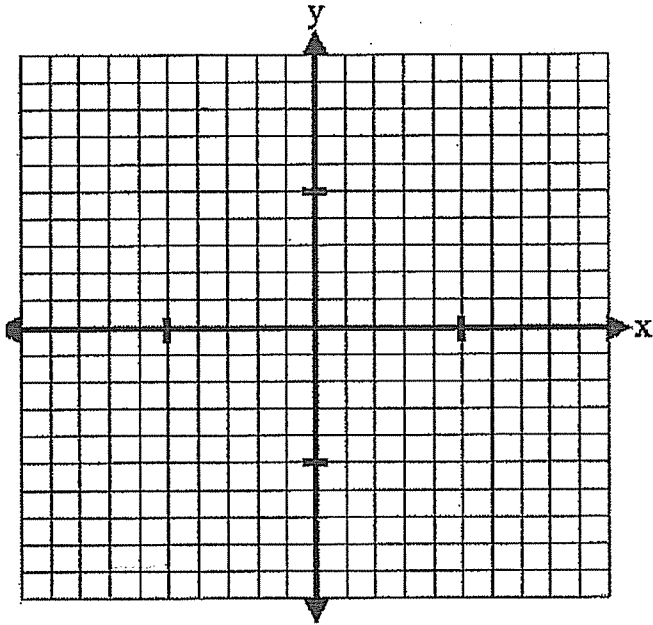
4. $-8x - 2y = -10$

Slope = _____ Y-Intercept = _____



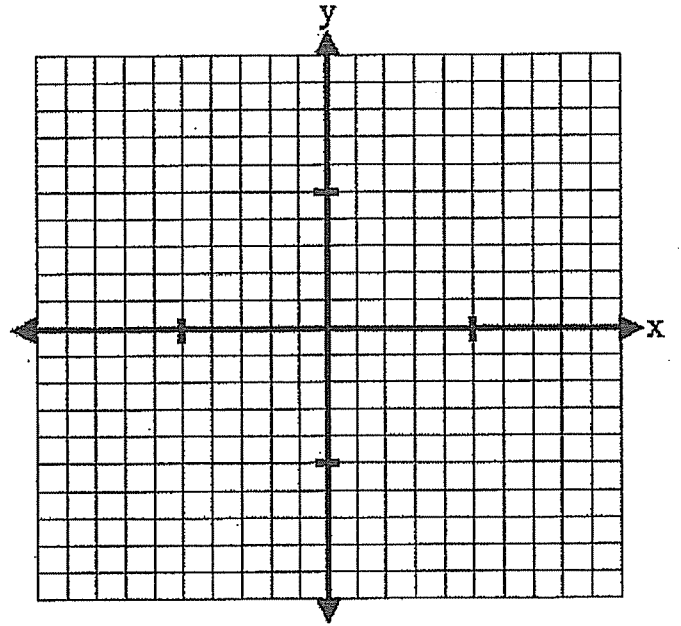
5. $12x + 4y = -8$

Slope = _____ Y-Intercept = _____



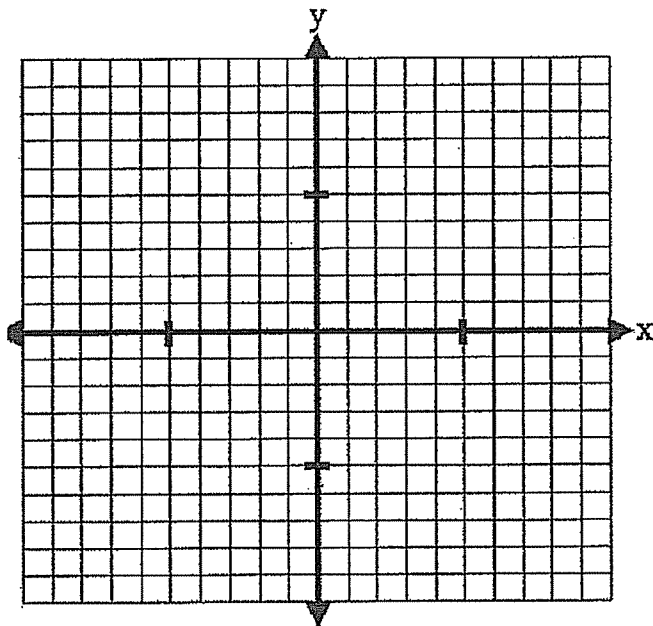
6. $3x - 2y = -8$

Slope = _____ Y-Intercept = _____



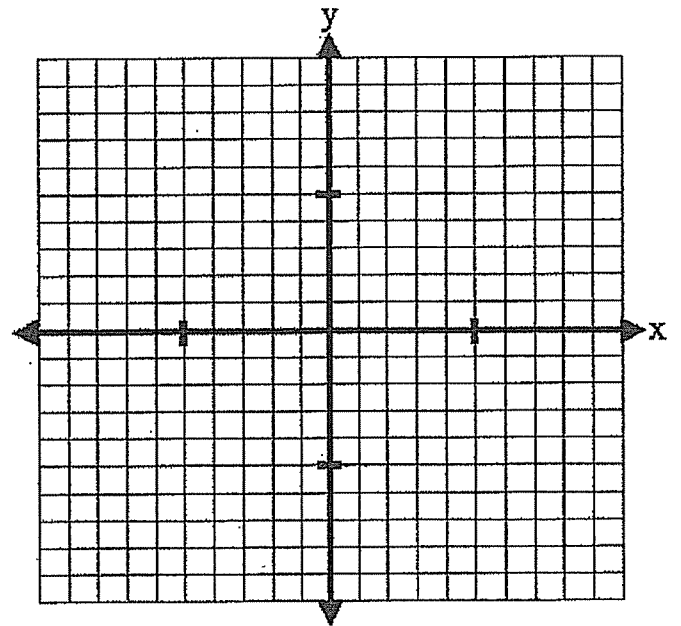
7. $-6x + 9y = 18$

Slope = _____ Y-Intercept = _____



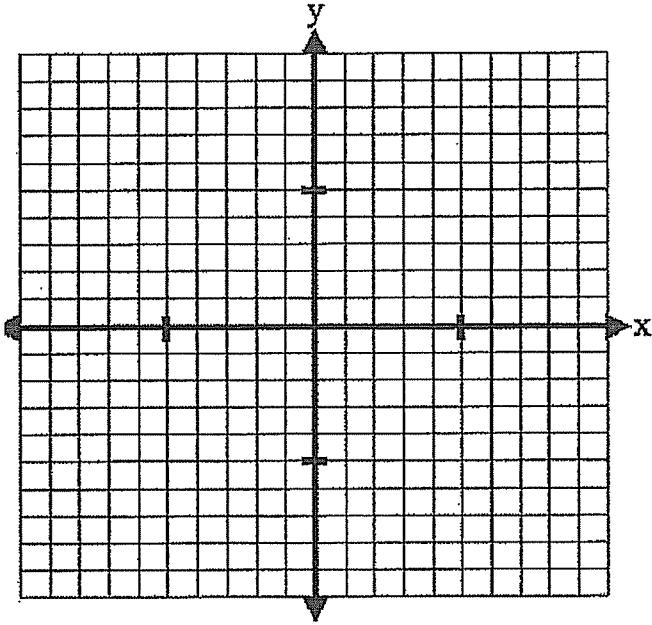
8. $-10x - 5y = -25$

Slope = _____ Y-Intercept = _____



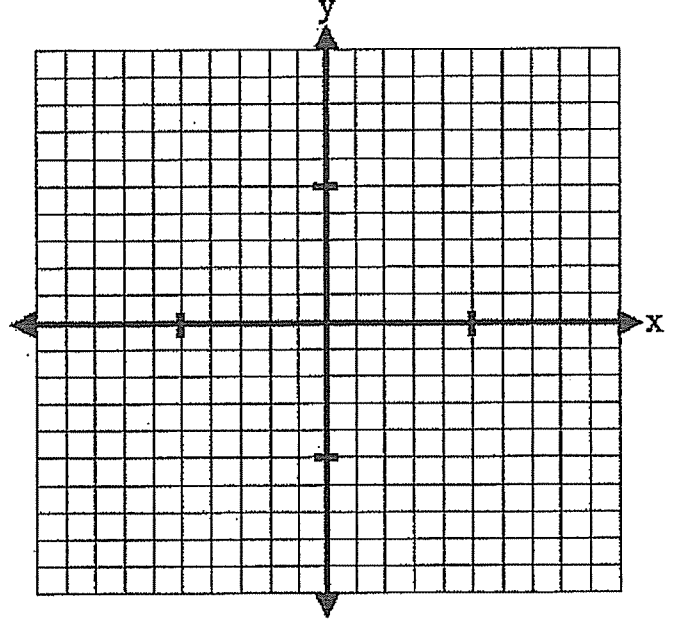
9. $9x - 3y = -18$

Slope = _____ Y-Intercept = _____



10. $5x + 6y = 24$

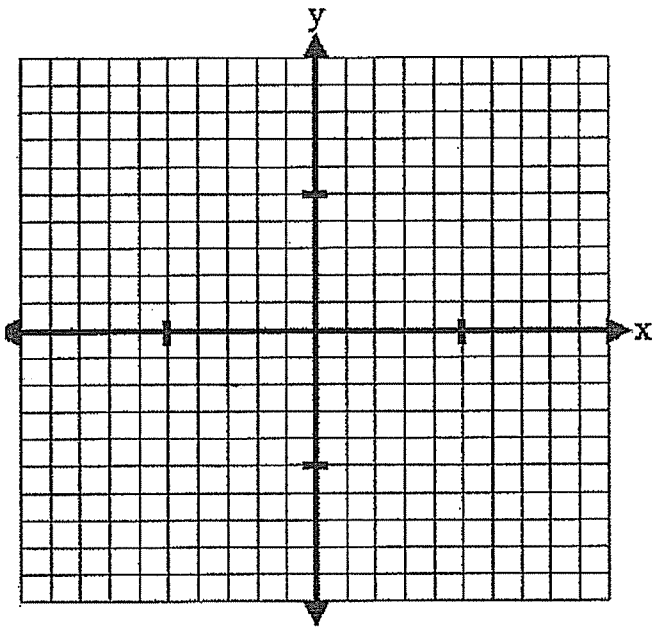
Slope = _____ Y-Intercept = _____



Solve for y or x. Graph and identify the slope and y-intercept.

11. $-8y = 16$

Slope = _____ Y-Intercept = _____



12. $16x = -32$

Slope = _____ Y-Intercept = _____

