Unit 2 1.4 Name: _____ Date: _____

Use Intercepts to Graph Linear Equations Notes

Objective: ***Graph the equation of a line in both standard and slope-intercept form.***

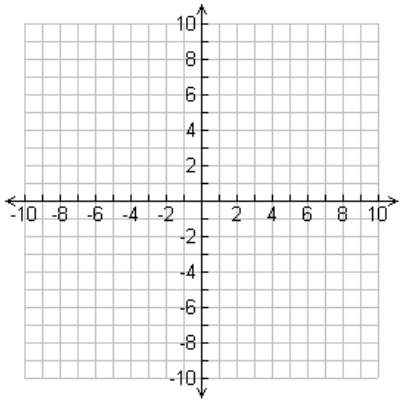
Change the equation into slope-intercept form, or find the x and y-intercepts, then graph.

X-intercept – Where the graph crosses the x-axis $(y = 0)$
Y-intercept – Where the graph crosses the y-axis $(x = 0)$

1a. $4x + y = 8$

$-4x \quad -4x$

$y = -4x + 8$



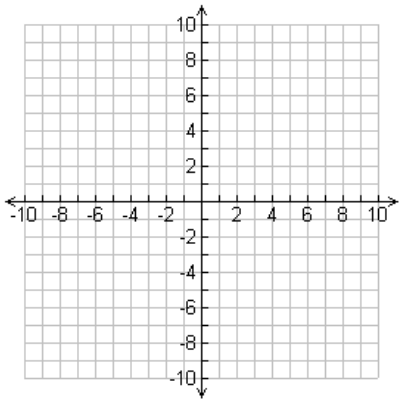
1b. $4x + y = 8$

X-intercept $(y = 0)$ $\quad 4x + 0 = 8$

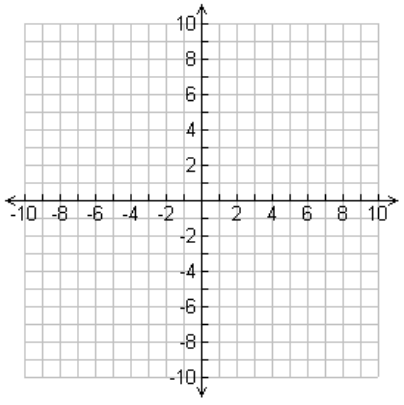
$x = 2$

Y-intercept $(x = 0)$ $\quad 4(0) + y = 8$

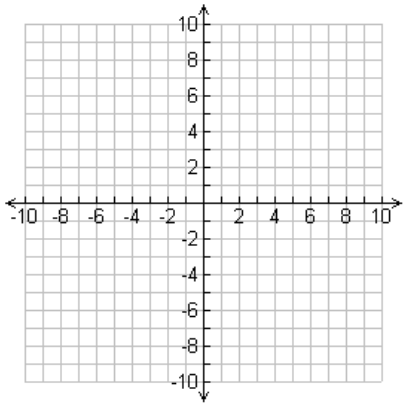
$y = 8$



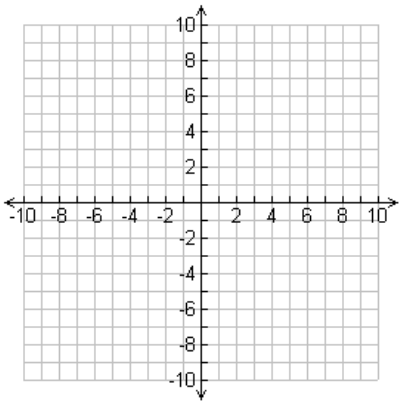
2a. $-3x + 5y = 15$



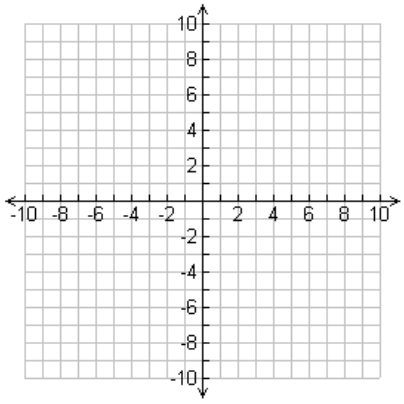
2b. $-3x + 5y = 15$



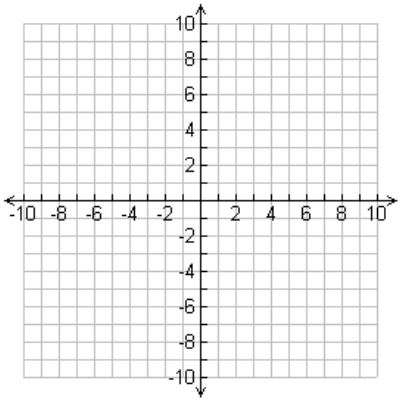
3. $5x - y = 4$



4. $7y = 28$



5. $x = -6$



6. $9x - 6y = 54$