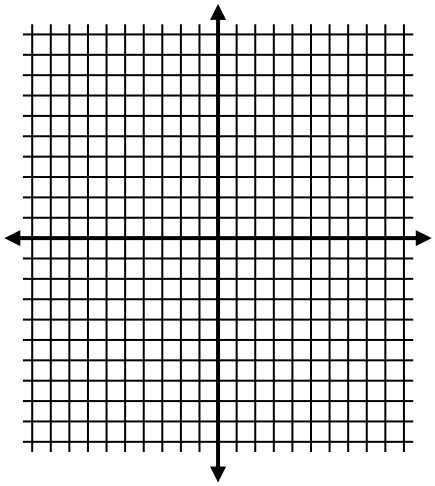
Name:_____ **Date:**_____ **Per:**_____

Midterm Review Warm Up 4

Section 4.2 – Graphing Lines by Making a Table

Ex: Graph $y = \frac{2}{3}x - 1$ with a domain of $x \geq 0$ by making a table. (Be sure to choose appropriate values for x)

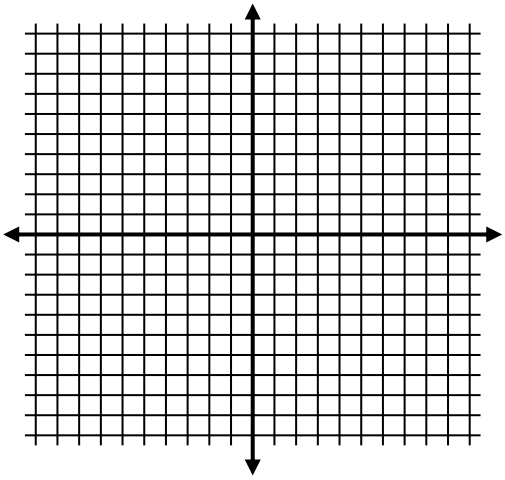
x	y



Section 4.3 – Graphing Lines by Using x and y Intercepts

Ex: Find the x and y intercepts of the equation:
$4x - 6y = -18$

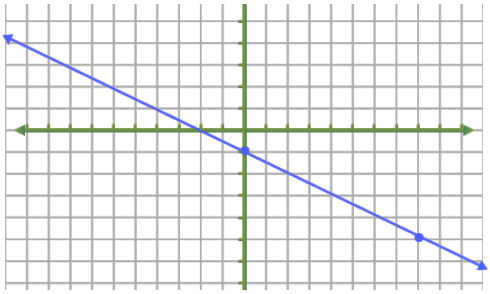
Ex: Graph the equation $-2y - 4x = 16$ using x and y intercepts.



Section 4.4 – Finding Slope and Rate of Change

Ex: Find the slope of the line that passes through the points $(-2, 8)$ and $(-2, 12)$

Ex: Find the slope of the line graphed.



Section 4.5 – Graphing Lines Using Slope-Intercept Form

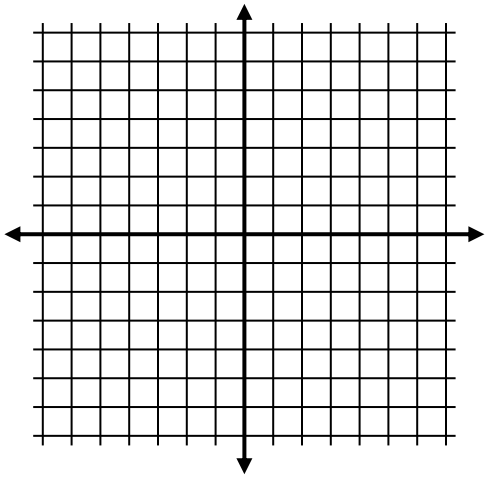
Ex: Write the following equation in slope-intercept form and identify the slope and *y*-intercept:

$2x - 3y = 12$

Slope:_____ *y*-intercept:_____

Ex: Graph the following equation using slope-intercept form:

$y = -\frac{5}{2}x - 3$



Section 4.6 – Direct Variation

Ex: Does the following equation represent direct variation? Why or why not?

$3x + y - 2 = -2$

Ex: If *y* varies directly with *x* and $y = 12$ when $x = 2$, find the constant of variation ***and*** write the direct variation equation representing the situation.

Section 4.7 – Function Notation

Ex: Evaluate the function $f(x) = -2x + 5$ when $x = 4$

Ex: For the function $f(x) = 4x - 2$, find the value of *x* when $f(x) = 10$