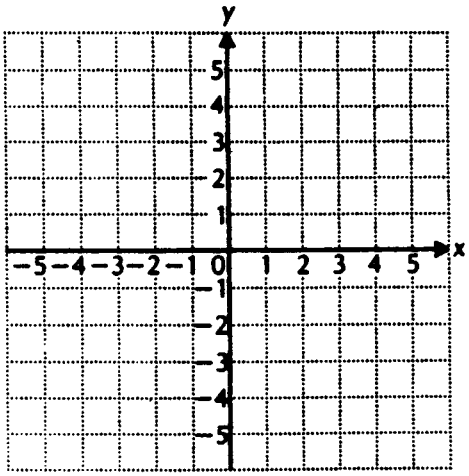
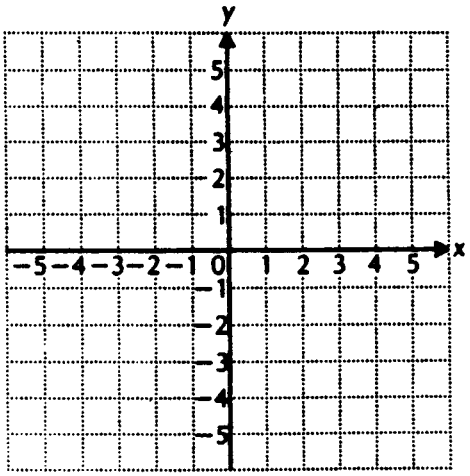
MAT 0028 Graphing Review Test 2 Name_____

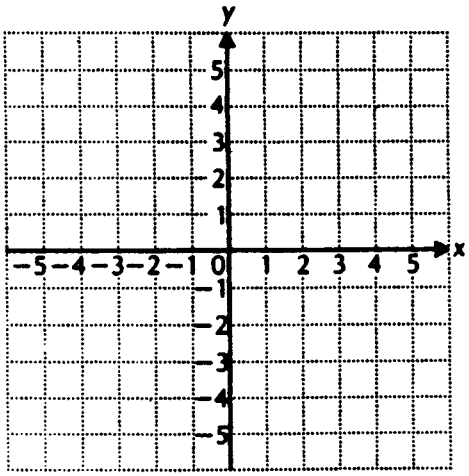
1. Graph $y = 2x - 1$



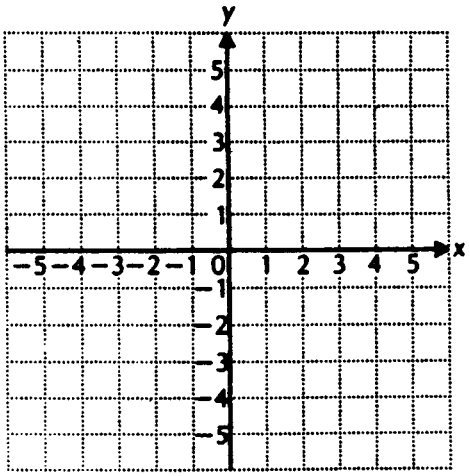
2. Graph $3x - 2y = 12$



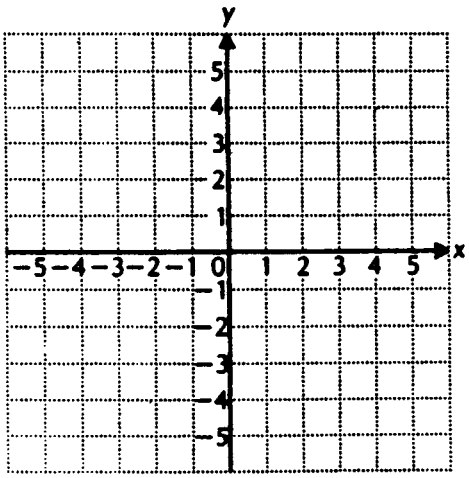
3. Graph $y = -3$



4. Graph $y = \frac{2}{3}x + 1$

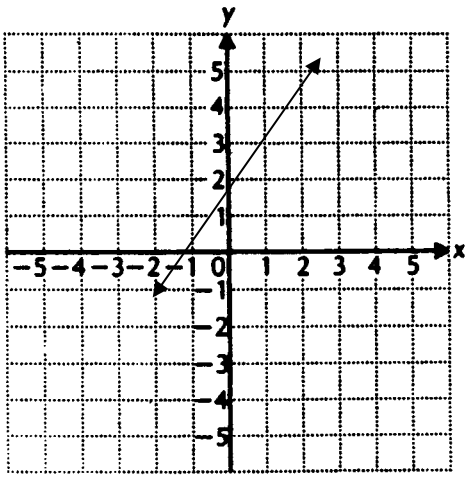


5. Graph the line which contains (-2, 1) and has slope $m = \frac{2}{3}$.



6. What is the slope of the line graphed below?

6._____



7. Find the "x" and "y" intercepts of $5x - 2y = 12$. 7a._____

a. x intercept: b._____

b. y intercept:

8. Find the slope and "y" intercept of $y = -5x + 3$. 8a._____

a. slope: b._____

b. "y" intercept:

9. Find the slope of $2y - 3x = 12$. 9._____

10. Find the slope of the line which contains points (2, -1) and (5, 3) . 10._____

Part 2 Review

MAT 0024
Hasenauer

TEST 2

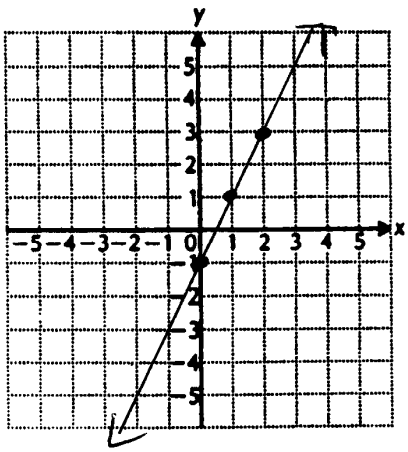
Name Key

1. Graph $y = 2x - 1$

use slope, 1 pt
$m = 2$ $(0,-1)$

or a chart

x	y



2. Graph $3x - 2y = 12$

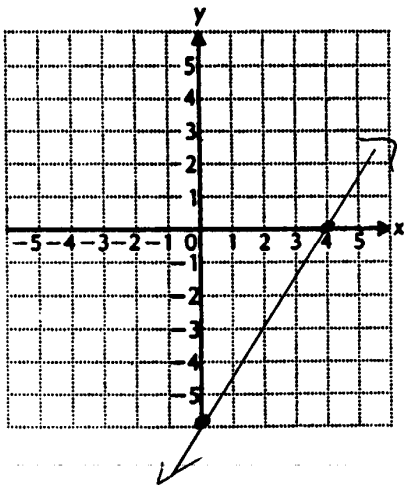
use intercepts

x	y
4	0
0	-6

x int
y int

$3x - 2(0) = 12$
$3x = 12$
$x = 4$

$3(0) - 2y = 12$
$-2y = 12$
$y = -6$

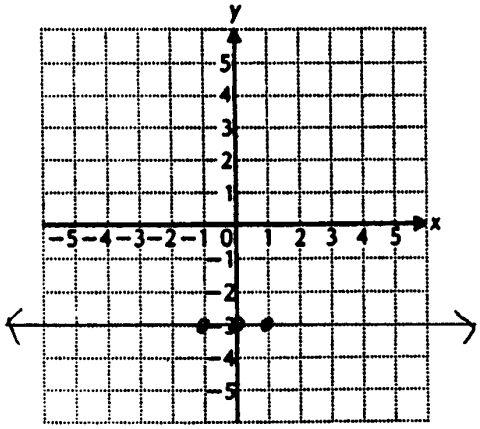


3. Graph $y = -3$

special line

x	y
0	-3
1	-3
-1	-3

↑ any x

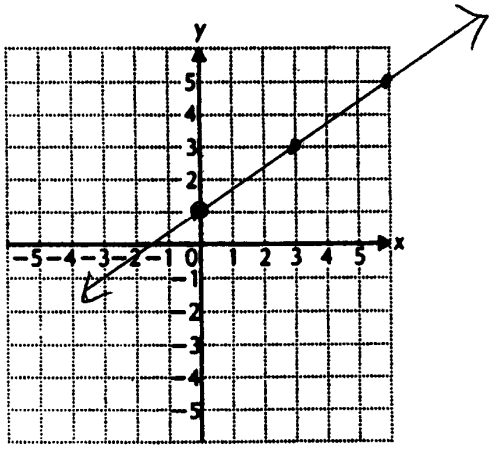


4. Graph $y = \frac{2}{3}x + 1$

use slope, 1 pt
$m = \frac{2}{3}$ $(0,1)$

or chart

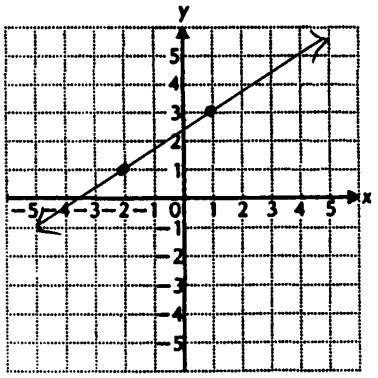
x	y



5. Graph the line which contains (-2, 1) and has slope $m = \frac{2}{3}$.

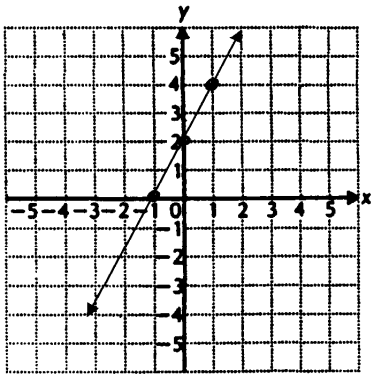
① Plot (-2,1)

② Move from (-2,1) with slope $\frac{2}{3}$ v h to find a new point



6. What is the slope of the line graphed below?

6. $m = \frac{2}{1} = 2$



7. Find the "x" and "y" intercepts of $5x - 2y = 12$.

7a. $\left(\frac{12}{5}, 0\right)$

b. $(0, -6)$

a. x intercept: Set $y = 0$

$5x - 2(0) = 12$

$5x = 12$

$x = \frac{12}{5}$ $\left(\frac{12}{5}, 0\right)$

b. y intercept: Set $x = 0$

$5(0) - 2y = 12$

$-2y = 12$

$y = -6$ $(0, -6)$

8. Find the slope and "y" intercept of $y = -5x + 3$.

8a. $m = -5$

b. yint $(0, 3)$

a. slope: coef of x

m yint

b. "y" intercept:

9. Find the slope of $2y - 3x = 12$. Change to slope Intercept Form. Isolate y.

9. $m = 3/2$

$2y = 12 + 3x$

$\frac{2y}{2} = \frac{12}{2} + \frac{3x}{2}$

$y = 6 + \frac{3}{2}x$

m = coef of x

10. Find the slope of the line which contains points (2, -1) and (5, 3) .

x_1 y_1 x_2 y_2

10. $m = 4/3$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - (-1)}{5 - 2} = \frac{4}{3}$$