Name_____

Graphing Lines

Date_____ Period____

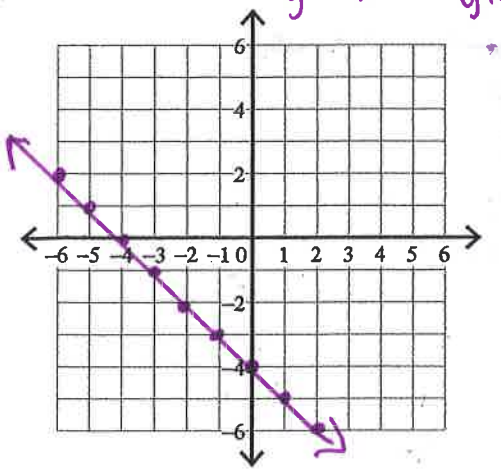
Sketch the graph of each line.

1) $x + y = -4$

$y = -x - 4$

x int: -4

y int: -4

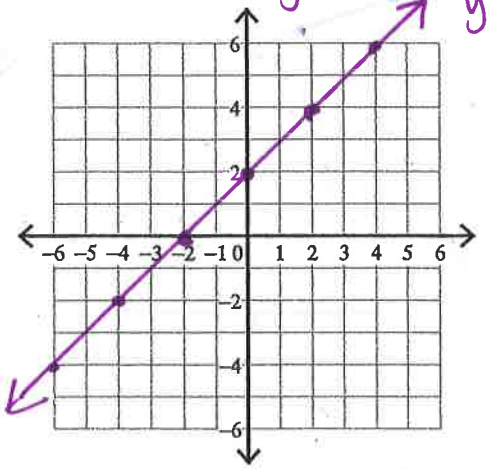


2) $x - y = -2$

$y = x + 2$

x int: -2

y int: 2

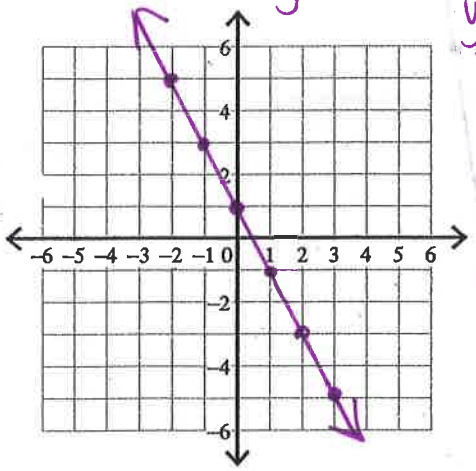


3) $2x + y = 1$

$y = -2x + 1$

x int: $\frac{1}{2}$

y int: 1

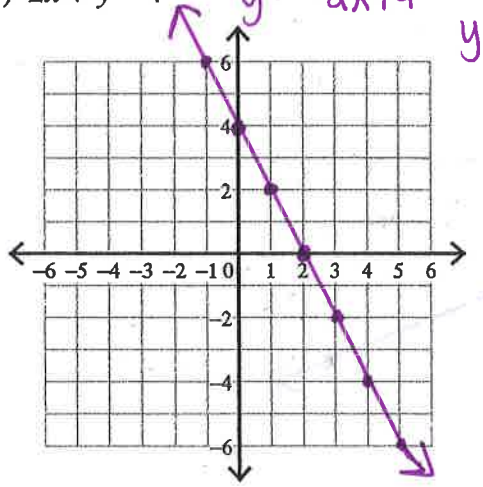


4) $2x + y = 4$

$y = -2x + 4$

x int: 2

y int: 4

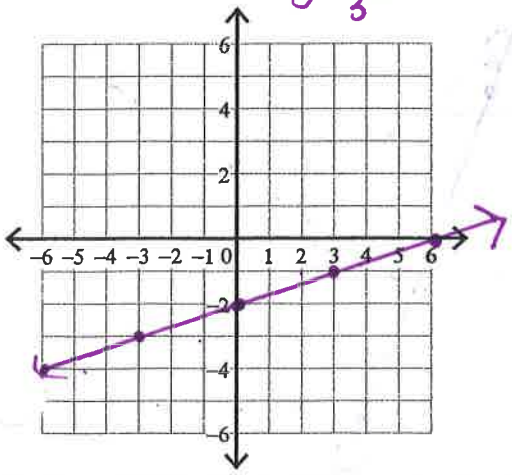


5) $x - 3y = 6$

$y = \frac{1}{3}x - 2$

x-int: 6

y-int: -2

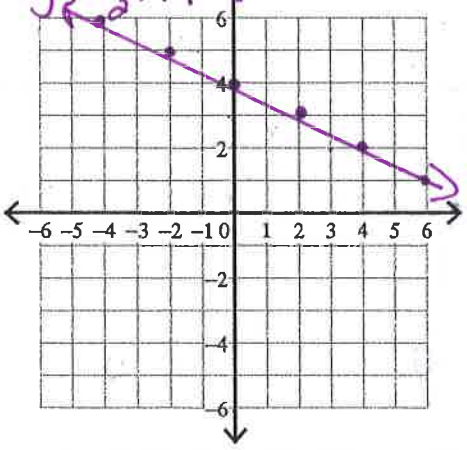


6) $x + 2y = 8$

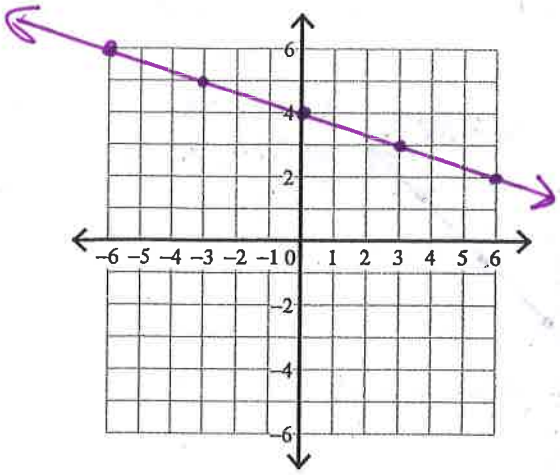
x int: 8

y int: 4

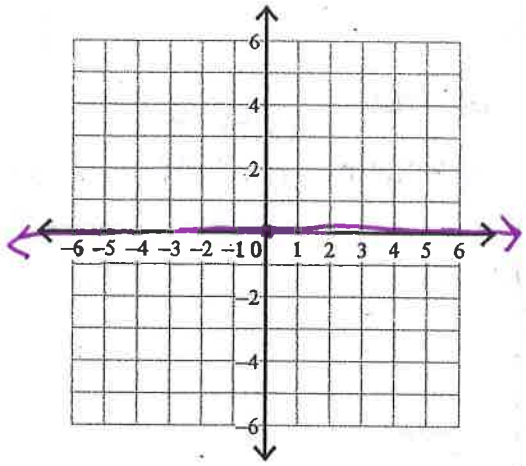
$y = -\frac{1}{2}x + 4$



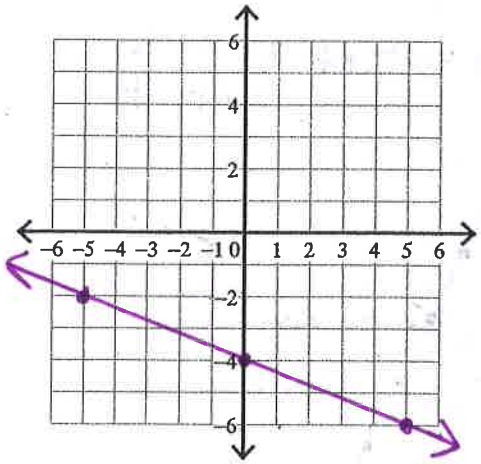
7) $y = -\frac{1}{3}x + 4$



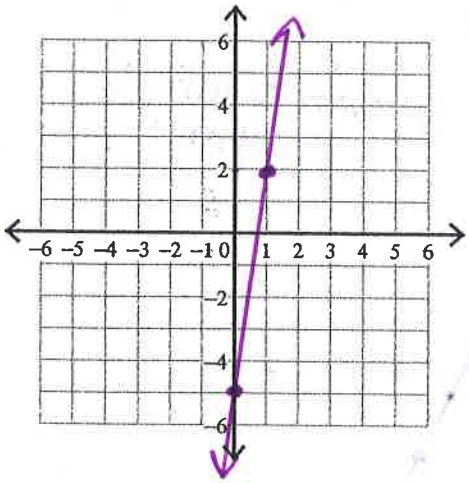
8) $y = 0$



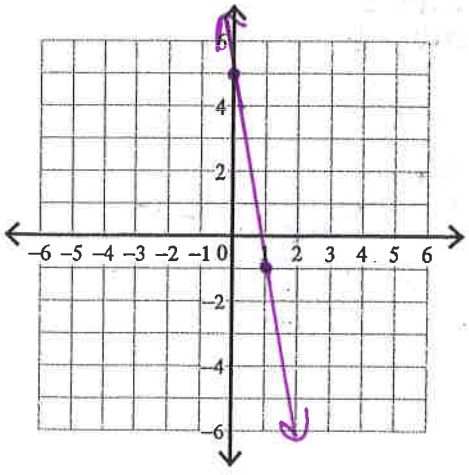
9) $y = -\frac{2}{5}x - 4$



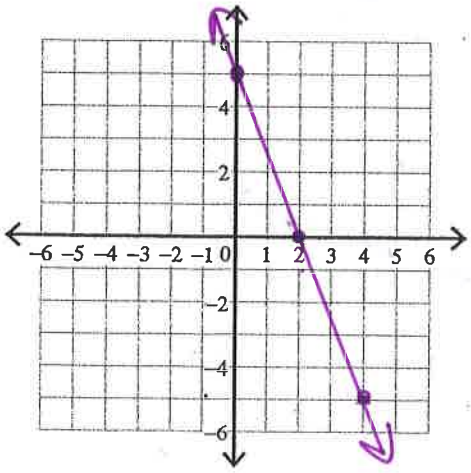
10) $y = 7x - 5$



11) $y = -6x + 5$



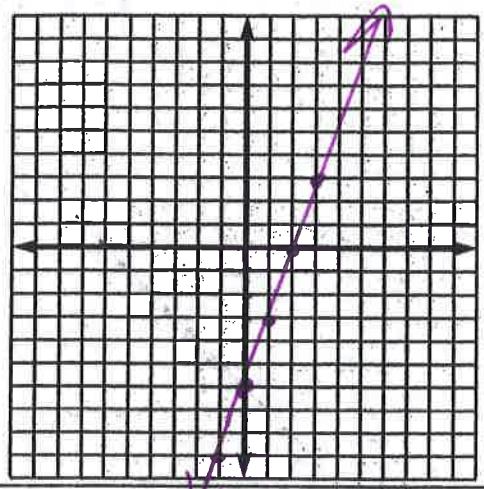
12) $y = -\frac{5}{2}x + 5$



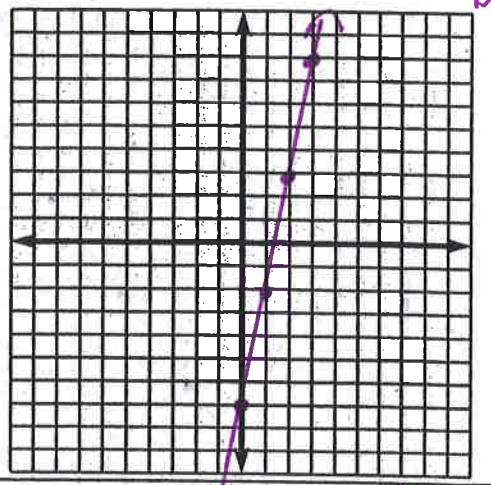
Slope-Intercept Form

Solve for y, state the m and b, and graph.

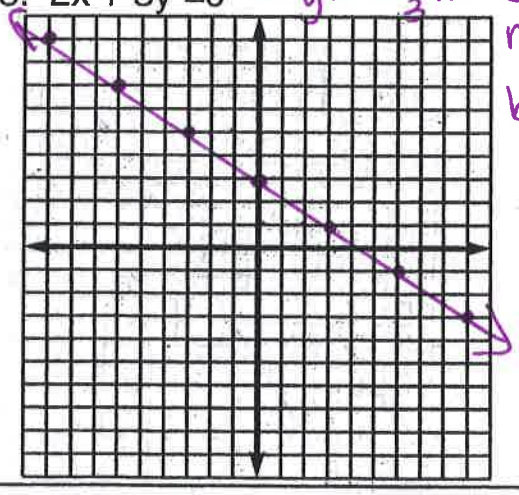
1. $y = 3x - 6$ $m=3$ $b=-6$



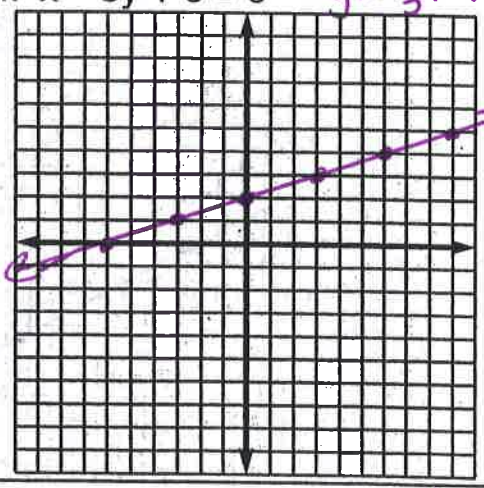
2. $5x - y = 7$ $y=5x-7$ $m=5$ $b=-7$



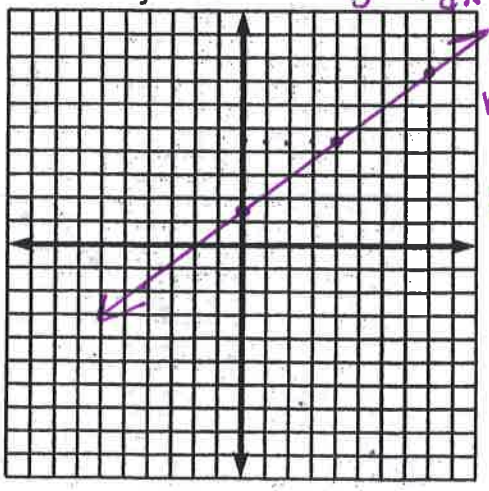
3. $2x + 3y = 9$ $y=-\frac{2}{3}x+3$ $m=-\frac{2}{3}$ $b=3$



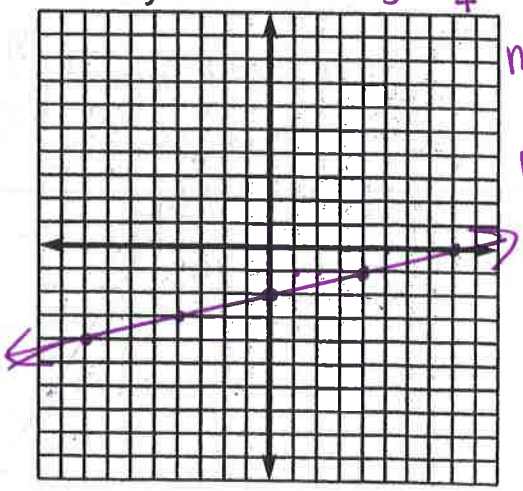
4. $x - 3y + 6 = 0$ $y=\frac{1}{3}x+2$ $m=\frac{1}{3}$ $b=2$



5. $6x + 8y = 12$ $y=-\frac{3}{4}x+\frac{3}{2}$ $m=-\frac{3}{4}$ $b=\frac{3}{2}$



6. $x - 4y + 4 = 12$ $y=\frac{1}{4}x-2$ $m=\frac{1}{4}$ $b=-2$

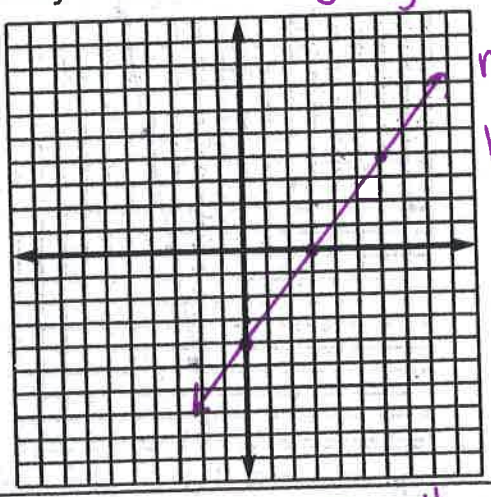


Name _____

Slope-Intercept Form

Solve for y, state the m and b, and graph.

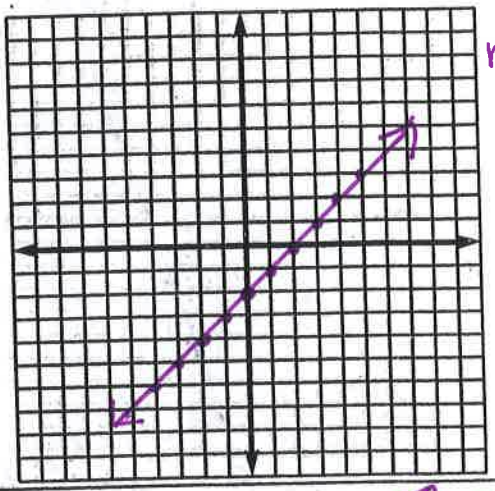
1. $3y = 4x - 12$ $y = \frac{4}{3}x - 4$



$m = \frac{4}{3}$

$b = -4$

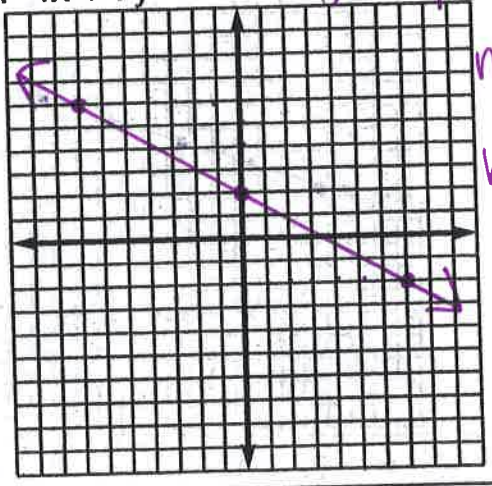
2. $6x - 6y = 12$ $y = x - 2$



$m = 1$

$b = -2$

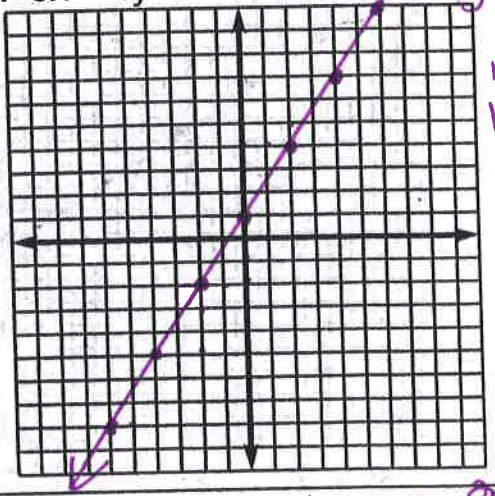
3. $4x + 7y = 14$ $y = -\frac{4}{7}x + 2$



$m = -\frac{4}{7}$

$b = 2$

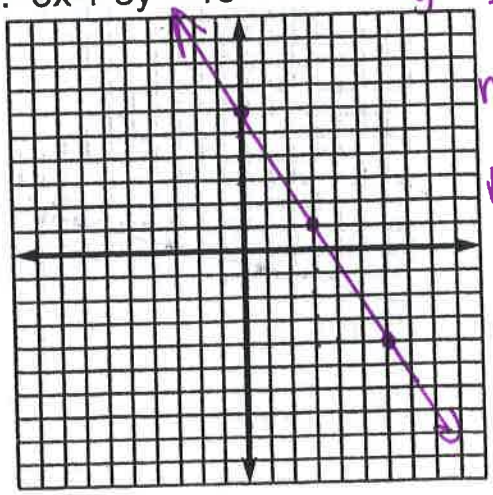
4. $6x - 4y + 4 = 0$ $y = +\frac{3}{2}x + 1$



$m = 1\ 3/2$

$b = 1$

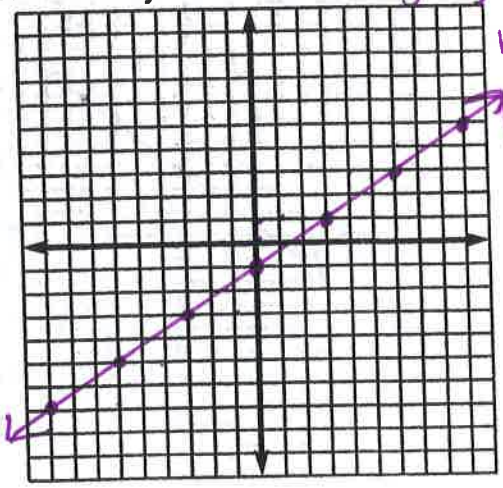
5. $5x + 3y = 18$ $y = -\frac{5}{3}x + 6$



$m = -\frac{5}{3}$

$b = 6$

6. $4x - 6y + 8 = 14$ $y = \frac{2}{3}x - 1$



$m = \frac{2}{3}$

$b = -1$