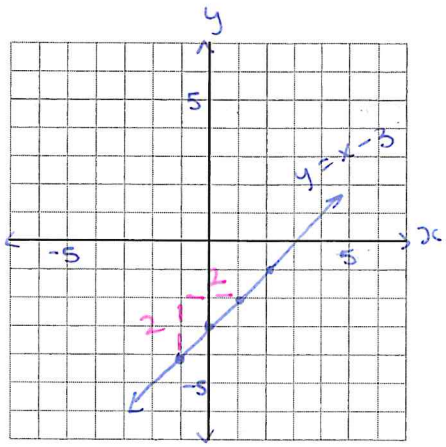
TABLE OF VALUES and GRAPHING

1) For each of the following equations, make a table of values and sketch the graph for the line.

a) $y = x - 3$

x	$y = x - 3$	(x, y)
-1	$y = (-1) - 3$ $= -4$	$(-1, -4)$
0	$y = (0) - 3$ $= -3$	$(0, -3)$
1	$y = (1) - 3$ $= -2$	$(1, -2)$
2	$y = (2) - 3$ $= -1$	$(2, -1)$



$m = \frac{\text{rise}}{\text{run}}$

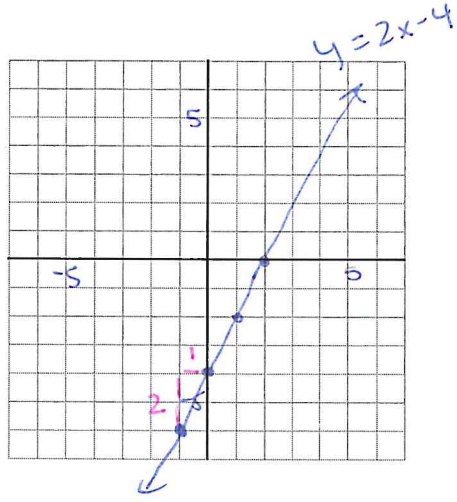
$= \frac{2}{2}$

$= 1$

What is the slope of $y = x - 3$? 1

b) $y = 2x - 4$

x	$y = 2x - 4$	(x, y)
-1	$y = 2(-1) - 4$ $= -6$	$(-1, -6)$
0	$y = 2(0) - 4$ $= -4$	$(0, -4)$
1	$y = 2(1) - 4$ $= -2$	$(1, -2)$
2	$y = 2(2) - 4$ $= 0$	$(2, 0)$



$m = \frac{\text{rise}}{\text{run}}$

$= \frac{2}{1}$

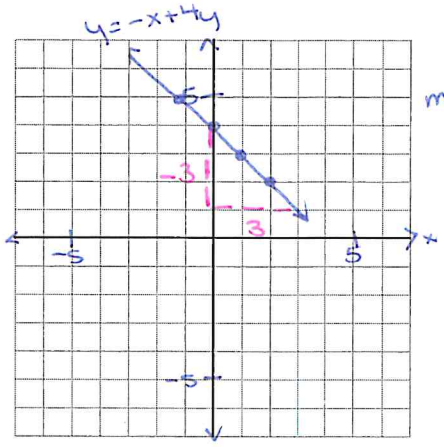
$= 2$

What is the slope of $y = 2x - 4$? 2

6. For each of the following equations, make a table of values and sketch the graph for the line.

c) $y = -x + 4$

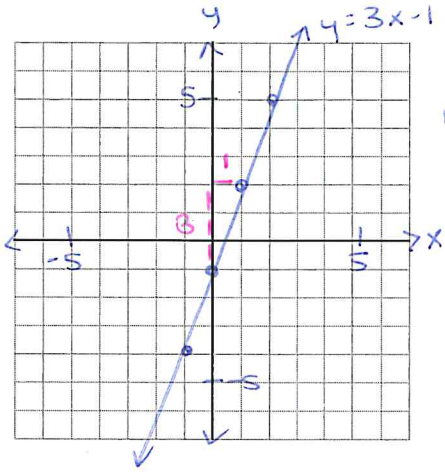
x	$y = -x + 4$	(x, y)
-1	$y = -(-1) + 4$ $= 5$	$(-1, 5)$
0	$y = -(0) + 4$ $= 4$	$(0, 4)$
1	$y = -(1) + 4$ $= 3$	$(1, 3)$
2	$y = -(2) + 4$ $= 2$	$(2, 2)$



What is the slope of y = -x + 4 ? -1

d) $y = 3x - 1$

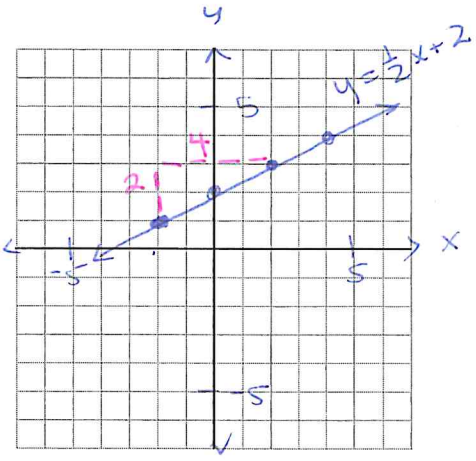
x	$y = 3x - 1$	(x, y)
-1	$y = 3(-1) - 1$ $= -4$	$(-1, -4)$
0	$y = 3(0) - 1$ $= -1$	$(0, -1)$
1	$y = 3(1) - 1$ $= 2$	$(1, 2)$
2	$y = 3(2) - 1$ $= 5$	$(2, 5)$



What is the slope of y = 3x – 1 ? 3

e) $y = \frac{1}{2}x + 2$

x	$y = \frac{1}{2}x + 2$	(x, y)
-2	$y = \frac{1}{2}(-2) + 2$ $= 1$	$(-2, 1)$
0	$y = \frac{1}{2}(0) + 2$ $= 2$	$(0, 2)$
2	$y = \frac{1}{2}(2) + 2$ $= 3$	$(2, 3)$
4	$y = \frac{1}{2}(4) + 2$ $= 4$	$(4, 4)$



What is the slope of y = ½ x + 2 ? $1/2$