

Topic: Graphing functions using a t-chart
 objectives: use t-charts to graph lines

(ex) $2x - 4 = y$

*need 3 points to make a line (at least).

*you get to choose your x 's. Plug those in to find your y 's

$x=0$ $2(0) - 4 = y$
 $0 - 4 = y$
 $-4 = y$

$x=1$ $2(1) - 4 = y$
 $2 - 4 = y$
 $-2 = y$

$x=2$ $2(2) - 4 = y$
 $4 - 4 = y$
 $0 = y$

x	y
0	-4
1	-2
2	0

these coordinates become our points

- $(0, -4)$
- $(1, -2)$
- $(2, 0)$

Each point has an x part and a y part

(x, y)

(ex) $y = \frac{2}{3}x + 1$

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

$x=3$ $y = \frac{2}{3}(\frac{3}{1}) + 1$

$y = 2 + 1 = y = 3$

$x=6$ $y = \frac{2}{3}(\frac{6}{1}) + 1$

$y = 4 + 1 = y = 5$

x	y
0	1
3	3
6	5

(ex) $y = 5$

* No matter what x is

y is 5
 $y = 5$

x	y
0	5
2	5
6	5

* ← →
horizontal line

(ex) $x = -2$

* The only thing can
be is -2

x	y
-2	10
-2	-5
-2	3
-2	6

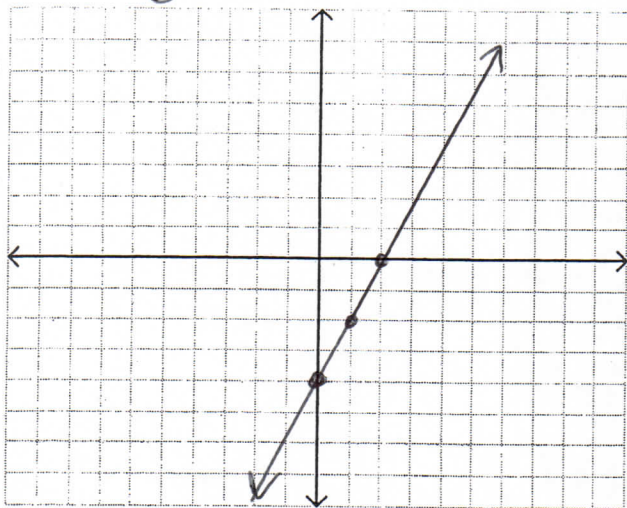
↑ ↓
vertical line

Name: _____

Date: _____

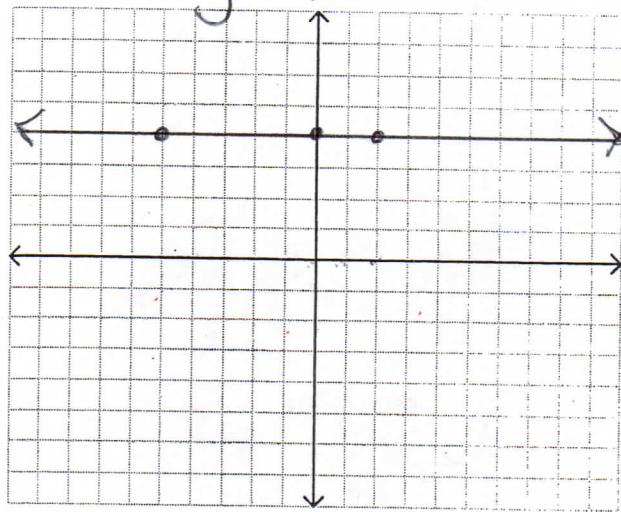
$$y = 2x - 4$$

x	y
0	-4
1	-2
2	0



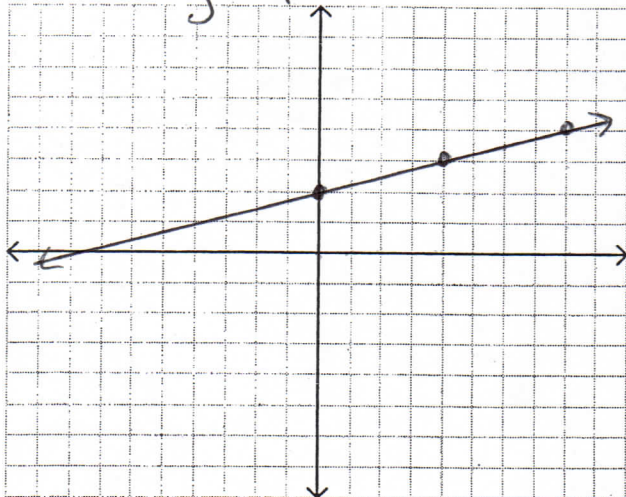
$$y = 4$$

x	y
2	4
-5	4
10	4



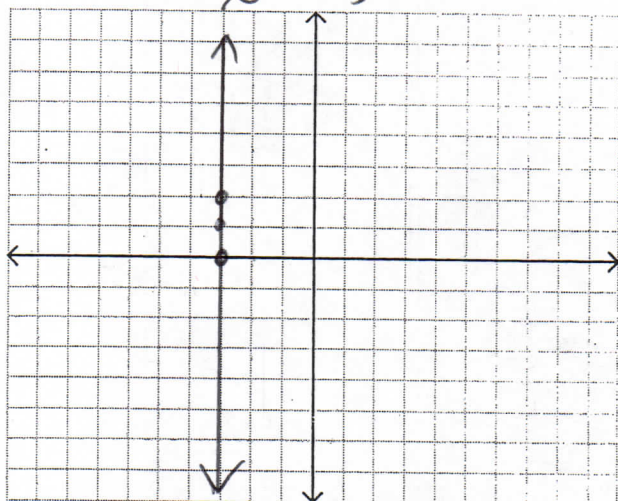
$$y = \frac{1}{4}x + 2$$

x	y
0	2
4	3
8	4



$$x = -3$$

x	y
-3	2
-3	0
-3	1



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

x	y
0	-1
3	0
6	1

