

# Graphing lines

1) Plot pts

2) x- & y-intercepts

3)  $y = m x + b$

Slope - intercept form

1 a)

$$f(x) = -3x + 6$$

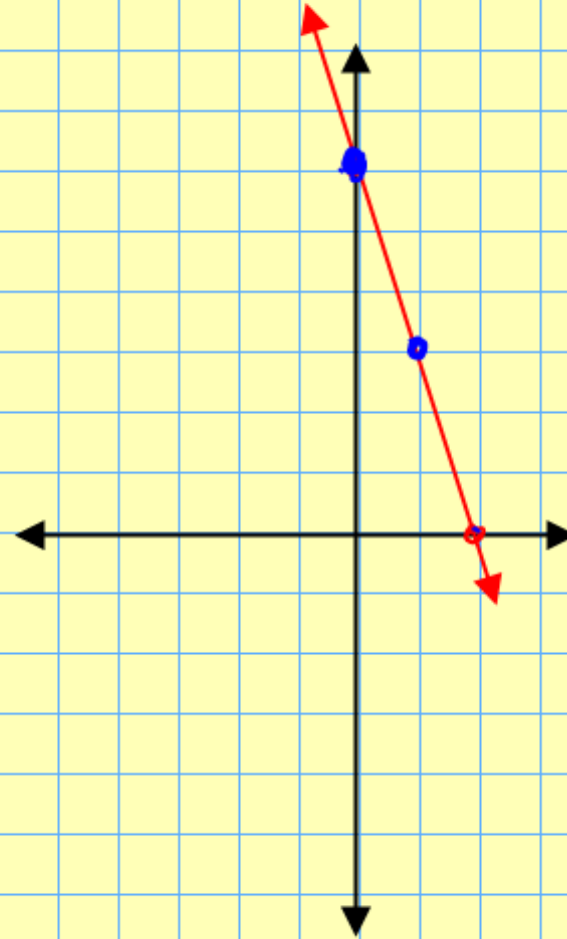
$\underbrace{-3}_m \quad \underbrace{+6}_b$

	x	y
y:	0	6
x:	2	0

$$0 = -3x + 6$$

$$3x = 6$$

$$x = 2$$



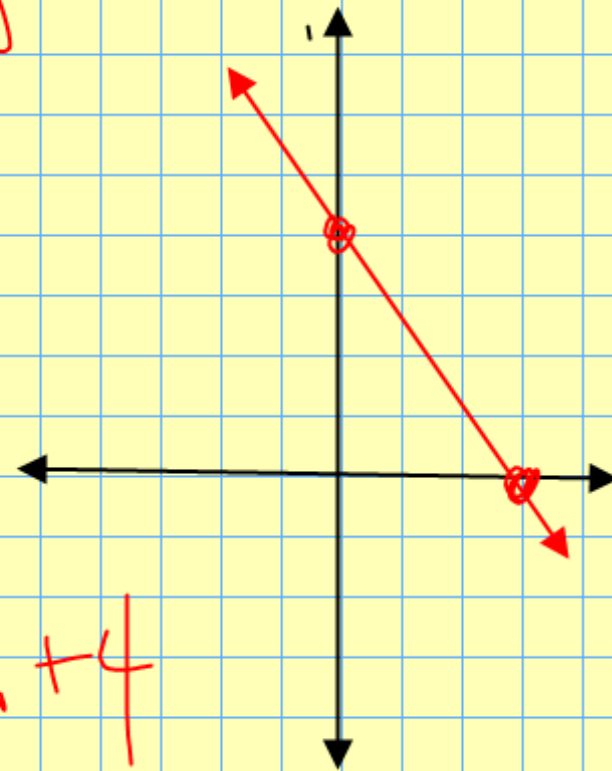
$$15) \quad 12 - \frac{1}{3}x + 12 = \frac{12}{4}y$$

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

$$12 = 4x + 3y$$

x	y
0	4
3	0

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

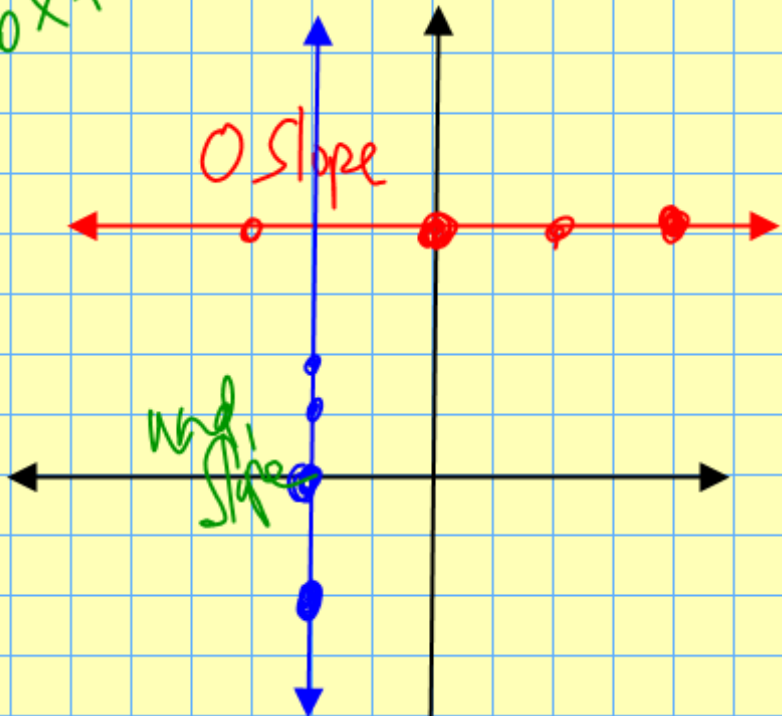


c) ①

$$y = 5$$

no x-intercept

0 slope



X	Y
1	5
0	5
2	5

$$y = mx + b$$

$$y = 0x + 5$$

$$m = \frac{\text{rise}}{\text{run}} = \frac{0}{4} = 0$$

c) ②

$$x = -2$$

$$m = \frac{\text{rise}}{\text{run}} = \frac{2}{0} = \text{undefined}$$

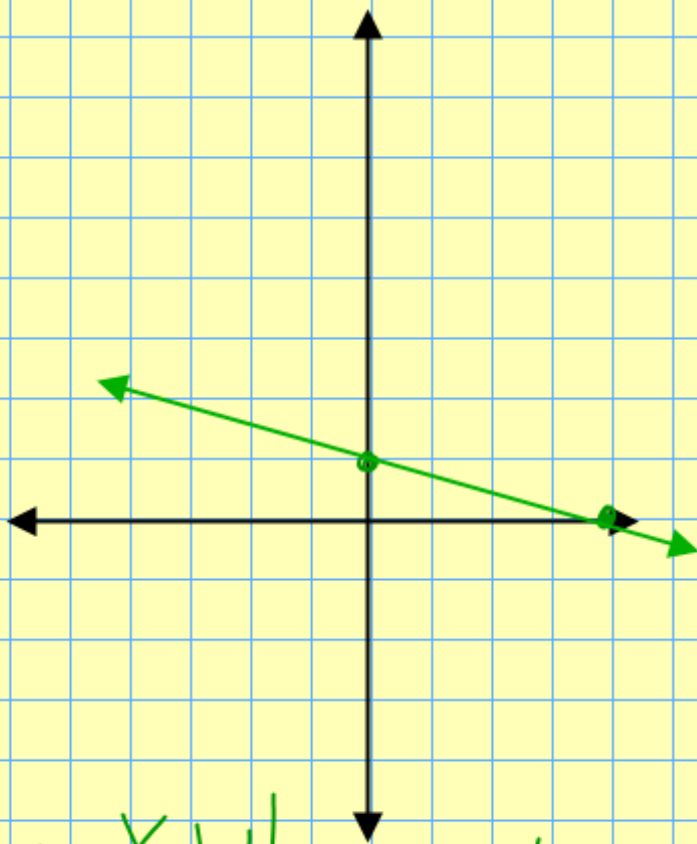


$$1d) \quad \frac{1}{2}x + 2y = 2$$

$$x + 4y = 4$$

x	y
0	1
4	0

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



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## 2.4 Graphs of Linear Functions

Objective: Graph linear functions by using intercepts.

2.4.13

2 correct | 0 of 23 complete

Graph the function by using intercepts.

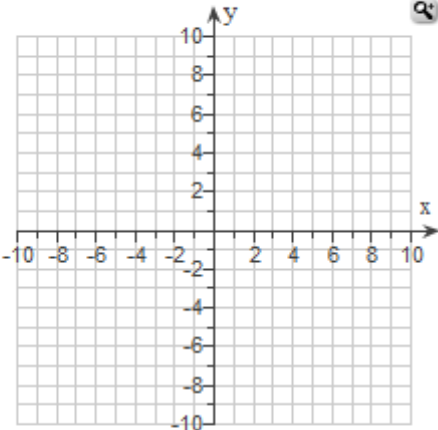
$$1.3x - 2.6y = 7.8$$

Use the graphing tool to graph the equation. Use the intercepts when drawing the line. If only one intercept exists, use it and another point to draw the line.

Click to enlarge graph

$$13x - 26y = 78$$

x	y	
0	3	$-26y = 78$
6	0	$13x = 78$



To pop up your graph, click the Click to enlarge graph button.

All parts showing

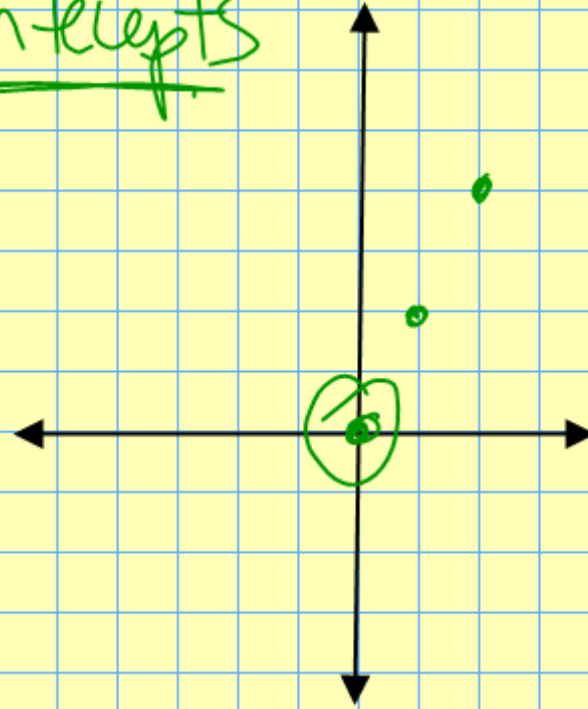
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$$y = 2x$$

graph the intercepts

X	y
0	0



$$\frac{10}{2} = 5$$

$$\frac{0}{0} = \text{und.}$$

$$\frac{0}{2} = 0$$

$$\frac{0}{2} = \text{und}$$

b)