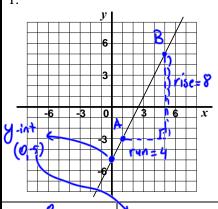
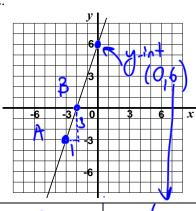
Finding Equations of Lines

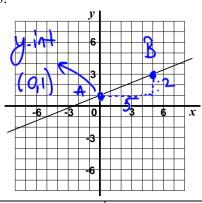
Date:

1.





3.



$$b = -5$$

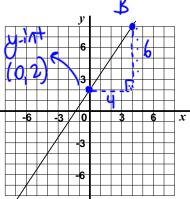
 $m = \frac{3}{3}$

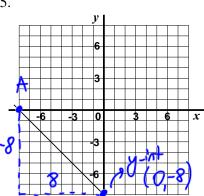
$$b = 6$$

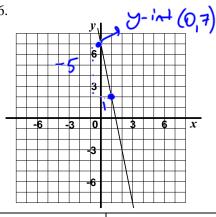
 $m = \sqrt[4]{2}/5$

Equation of line:
$$y = 3x + 6$$

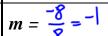
Equation of line:







 $m = \frac{6}{4} = \frac{3}{2} \qquad b = 2$ Equation of line: $y = \frac{3}{2} \times + 2$



$$b = -8$$

 $m = -\frac{5}{1}$ b = 7

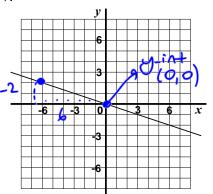
$$b = 7$$

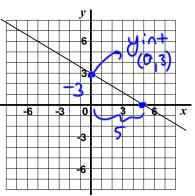
$$y = \frac{3}{2}X + 2$$

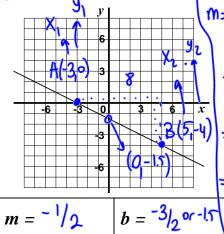
$$y = -x - 8$$

Equation of line:

7.







 $m = \frac{-2}{6} = \frac{1}{7} \mid b = 0$



Equation of line: $y = \frac{-1}{2}x - 1.5$

Equation of line: $\mathcal{Y} = \frac{-1}{3} \times$

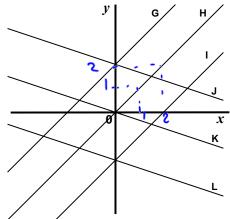
Equation of line:

Place the letter of the correctly matching line in the box beside each equation.

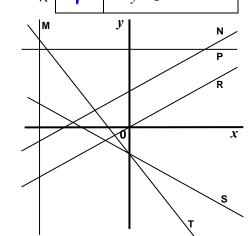
1.	oj tite	eori conj marening u
i	Ε	y = -x + 2
ii	6	$y = \frac{1}{2}x + 2$
iii	F	y = -2x + 2
iv	В	y = 2x + 2
V	D	y = 2

* 1	'\	,	3.v · 2	
-	\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A _B	c
		V		D
/				
		0	F	x E

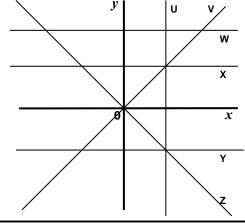
i	I	y = x - 4
ii	L	$y = -\frac{1}{2}x - 4$
iii	G	y = x + 4
iv	J	$y = -\frac{1}{2}x + 4$
v	н	y = x
vi	K	$y = -\frac{1}{2}x$



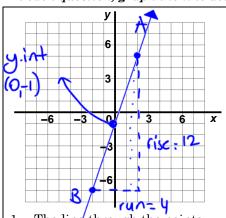
3.		
i	N	$y = \frac{2}{3}x + \frac{3}{2}$
ii	\$	$y = -\frac{2}{3}x - 1$
iii	R	$y = \frac{2}{3}x$
iv	~	x = -3
v	T	$y = -\frac{3}{2}x - 1$
vi	ρ	y = 3



i	Y	y = -2
ii	N	y = -x
iii	×	y = 2
iv	V	x = 2
v	3	y = 4
vi	٧	y = x



In each question, graph the line described then determine its equation and write it in the space provided.

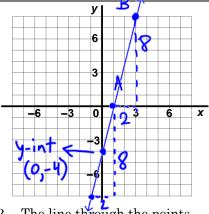


1. The lingthrough the points (2,5) and (-2,-7).

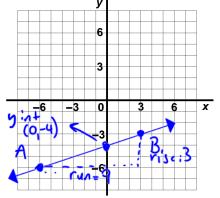
$$m = \frac{12}{4} = 3$$
 $b = -1$







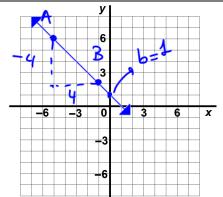
2. The line through the points A(1,0) and (3,8).



The line through the points (-6,-6) and (3,-3).

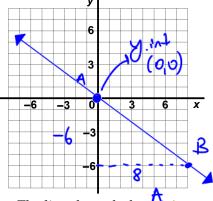
$$m = \frac{3}{9} = \frac{1}{3}x - 4$$

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



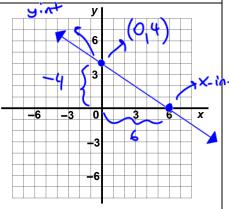
4. The line through the points (-5,6) and (-1,2)

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

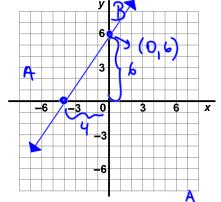


5. The line through the origin and the point (8,-6).

$$m = -6/8 = -3/4$$
 $y = -\frac{3}{4}$

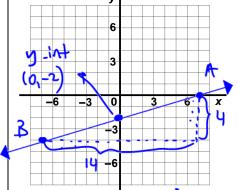


The line with *x*-intercept 6 and y-intercept 4

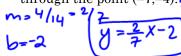


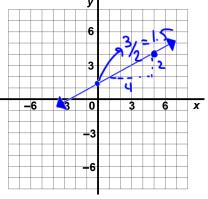
7. The line with x-intercept -4and y-intercept 6. 3 m = 6/4 = 3/2



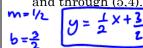


8. The line with x-intercept 7 and through the point (-7,-4).



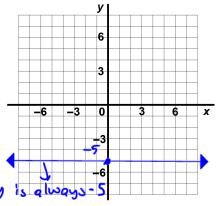


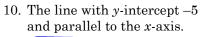
The line with y-intercept $\frac{3}{2}$ and through (5,4).

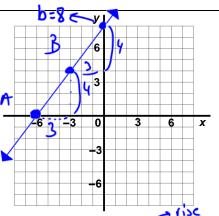


Mathematics 9 Plot & Name the Line

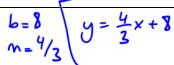
Date:

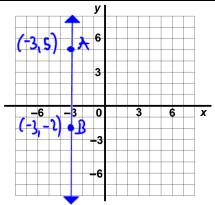




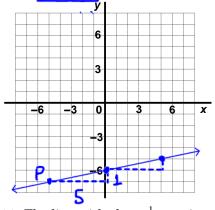


13. The line with slope $\frac{4}{3}$ and x-intercept -6.





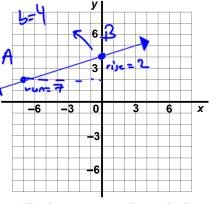
11. The line through the points (-3,5) and (-3,-2).



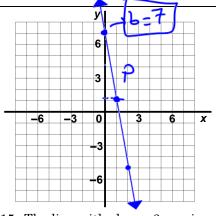
14. The line with slope $\frac{1}{5}$ passing through the point (-5,-7).

y= = x-6

$$m=\frac{1}{5}$$



12. The line passing through the point (-7,2) with slope $\frac{2}{7}$.



15. The line with slope –6 passing through the point (1,1).

$$n = \frac{-6}{5}$$
 $y = \frac{-6}{5}$

Answers:

1.
$$y = 3x - 1$$

4.
$$y = -x + 1$$

7.
$$y = \frac{3}{2}x + 6$$

10.
$$y = -5$$

13.
$$y = \frac{4}{3}x + 8$$

2.
$$y = 4x - 4$$

5.
$$y = -\frac{3}{4}x$$

8.
$$y = \frac{2}{7}x - 2$$

11.
$$x = -3$$

14.
$$y = \frac{1}{5}x - 6$$

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

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

9.
$$y = \frac{1}{2}x + \frac{3}{2}$$

12.
$$y = \frac{2}{7}x + 4$$

15.
$$y = -6x + 7$$