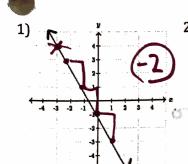
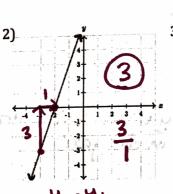
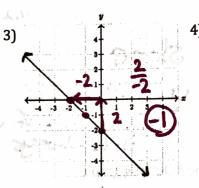
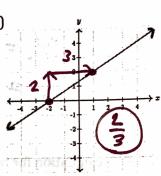
Slope Intercept Form Day 1

Find the slope by finding your own points on the graph









Find slope from two points

$$\frac{9 - (-3)}{-10 - 5} = \frac{12}{-15} = \frac{-\frac{4}{5}}{5}$$

$$\frac{-7-2}{-2-(-1)} = \frac{-9}{-1} = 9$$

	ind	slope	from a table
1)	X	у	M W
الد	-2	-5	+3
	-1	-2	12(3)
* (0	1	13
71	1	4	13
711	-2	7	7)

100	1.44	W V	1 6 4 10 10 10
2)	X	y	Apply and the special street and
41(-2	9)-2
•	-1	7	1-2 (-2)
46	0	5	
として	1	3	7-2
HC	2	1	1-4

Y	T.	who X.		THE PART		
3)	x	У		1.		
15/	-4	9	-2			
+2(-2	7			7	
	0	5	i digital)
+2(2	3	1-1	4		
*2	4	1)-2			
			1 ,			

4)		-	
-,	x	У	tı.
+2(-4	10	1110
,	-2	20	1410
*4	0	30	1410
47	2	40	1410
γk	4	50	1410
		•	(3)

- 3			
5)	X	у	
44(-10	-20	-20
*C	-5	-40	7-20
	0	-60	7-20
W	5	-80	
4	10	-100)-10
	1300°	(-1	1)
		-	

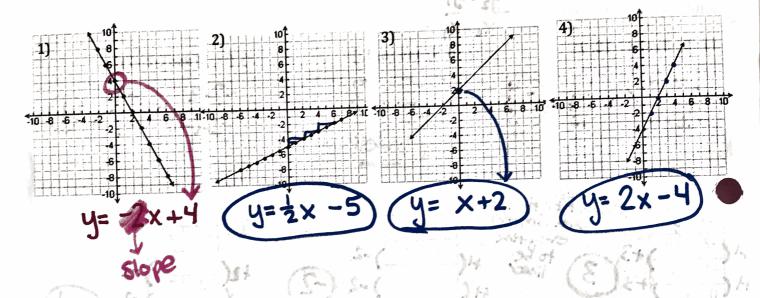
44			
6)	x	у	1
-3(-3	10	12
	-6	12	122
736	-9	14	12
150	-12	16	72
3	-15	18	
40.	(-	1/3	

Slope Intercept Form

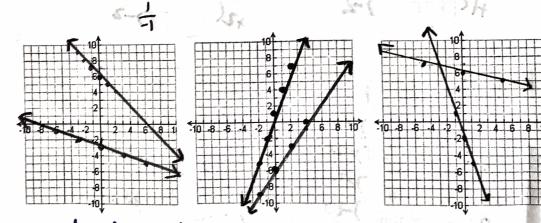
$$y = mx + b$$

Notes:

Write the equation for the following graphs:



Draw each graph. Use each coordinate plane for two linear functions.

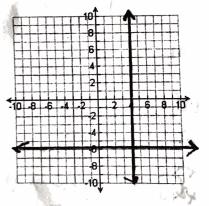




2)
$$y = -\frac{1}{3}x - 3$$
 4) $y = \frac{3}{2}x - 6$

5)
$$y = -3x - 2$$

$$6) y = -\frac{1}{5}x + 6$$



7)
$$x = 4$$

8)
$$y = -6$$

 $y = 0x - 6$

Slope Intercept Form HW Day 1

1. Find the slope through points (-5, 14) and (-1, 2)

2. Find the slope through points (-5, 6) and (8, 6)

$$h = 3a + 28.6$$

- A pediatrician uses the model above to estimate the height h of a boy, in inches, in terms of the boy's age a, in years, between the ages of 2 and 5. Based on the model, what is the estimated increase, in inches, of a boy's height each year?
 - 3 A)
 - 5.7 B)
 - 9.5 C)
 - D) 14.3

4. Which equation describes the line with a slope of 5 and y-intercept of -3?

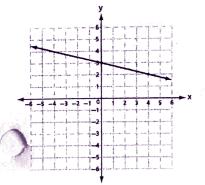
A
$$y = -3x + 5$$

A
$$y = -3x + 5$$
 C $y = 5x - 3$

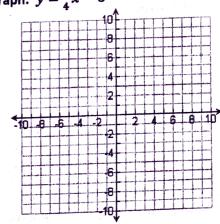
B
$$y = 3x - 5$$

B
$$y = 3x - 5$$
 D $y = 5x + 3$

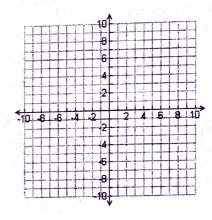
5. What is the equation in slope intercept form for the graph?



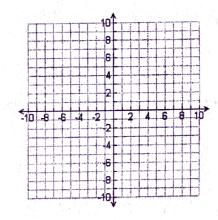
6. Graph: $y = \frac{1}{4}x - 6$



7. Graph: y = -2x + 3



8. Graph: $y = -\frac{2}{3}x + 5$



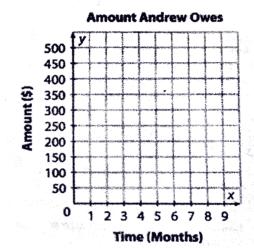
9. A local club charges an initial membership fee as well as a monthly cost. The cost is a linear function of the number of months of membership.

Write a linear function in slope intercept form to describe this situation.

The second section of the second section is the second section of the sect	454
3	277
0	100
Time (months)	Kijo Cost Cost (8)

10. Andrew wants to buy a smart phone that costs \$500. His parents will pay for the phone then Andrew will pay them \$50 each month until the entire amount is repaid.

- a. Write a linear function in slope intercept form to describe this situation.
- b. What does the slope represent? What does the y intercept represent?



c. Graph this function on the graph to the right.

CHALLENGE: Write an equation of a line in slope intercept form that passes through the points (3, 4) and (7, 8)