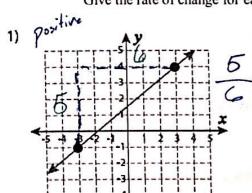
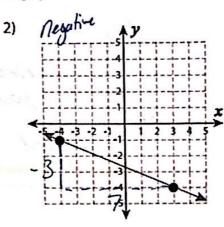
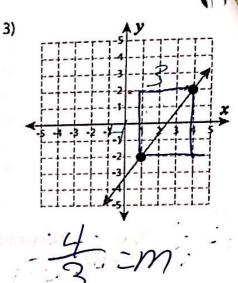
nit 3A De	2 2 and 4 D	Date:	ot la e	ye 280 sa	Hour:	
cus Questic	ay 3 and 4: Rates of Chon: How do I find rates of char	ange on a C	Graph	· varjimila	le se takénde	. )
A. Slope	in Context.		. 2 .			erist.
Sle	ope (rate of change) is referred	to as				
	hen a graph is decreasing, the			earling	and the second	1
W	hen a graph is increasing, the	constant rate of	change is	Sitil		13
W	then a graph is increasing, the of them a graph is constant (or	orizont4	), the rate	is 🛆		
W	hen a graph is a vertical line, t	he slope is $U_{4}$	defined	1 !		1
decin	on we find a rate of change on a ier to graph whole number rise nalsie. can you have 0.7 peop	s and runs (and ble per room?).	not all indeper	dent and deper	ident variables	come in
Slop	e is represented by the letter	er <u>m</u> for move	ement (the pa	ath along whi	ch the objec	t is
HIOV	mg.) - /] -	e mx+b	C. T.		Care e	
			The state of the s		entur enver e Resolute por e	
find the fir	nd the slope of each graph.	Then, explain	n what the ra	te means		
negotive	/				The second	
nes	WATER LEVEL					
-	IN STORAGE TANK	many to the	у	JOSH'S	CAR TRIP	
13			160	4		1115
12			ន្ទ ដ 140			
10			불울 120	1	1 2	
9	A A A A A A A A A A A A A A A A A A A	- (C) -	유 선 100	1	1.5	-
= 8	1111	(a)	<b> 08 8 8 6</b>	1.	11- 6	
8 7 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L. Self-Inc.	를 등 60 -			
8 7 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			100 HO -		<del>\</del>	
Maler Level (1)		Lark out	E 60 -		1	Th.
2		9 1	und 40 — 20 — O	1 2	3 4	5
2		- x	20		3 4 (in hours)	5
Waker Level 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 4 5 6 7 8 9 1011 12 13 Time (in hours)	- x	20		V	5
1 0 1	Time (in hours)	- x	20		V	5
	Time (in hours)	3 14	0	Time	(in hours) This means	
	Time (in hours)	3 14	0	Time	(in hours) This means	
	Time (in hours)	3 14	0	Time -40	(in hours) This means	

B. Not all graphs have labels on the x and y axis (context), but you can still find the slope!

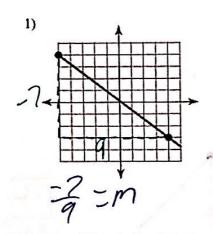
Give the rate of change for each graph below.

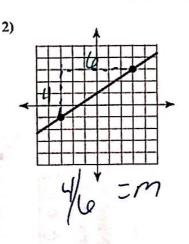


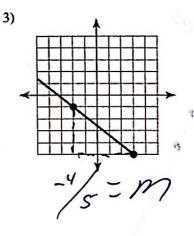


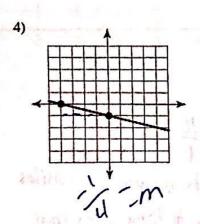


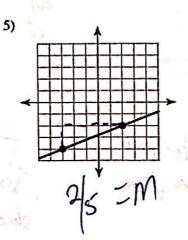
C. Partner Practice
Find the rate of change from each graph below.

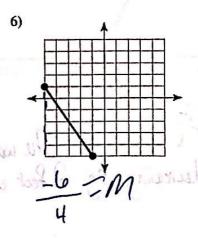




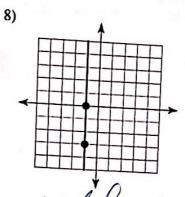






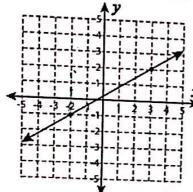


7)



9) Tommy was given the graph below and asked to find the slope. He said the answer was  $m = -\frac{5}{3}$ .

5=m



Explain his error(s) in reasoning.

1) Tommy is trying to find the slope of a graph 2) We are being asked to believe is  $m = \frac{3}{5}$ 3) His error is that the line is positive and did run frise instraet of nice from 1) The slope is  $m = \frac{3}{5}$ 

Please Be Careful...Sometimes you might have to find your own points to use on the graph.

Remember to find points that are EXACTLY where the line meets "a corner!"

