Do Now: Below is a graph that describes Ms. Ackerman's hiking trip.

a) Did which period of time did Ms. Ackerman traveled the quickest? Justify your answer

answer. 14) steepest 510 pe

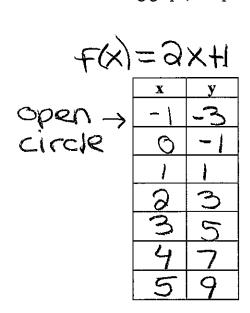


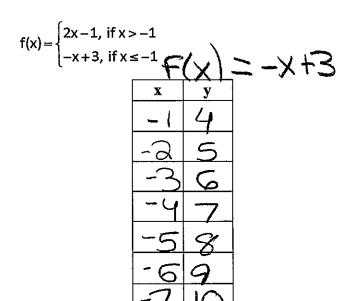
b) Explain what Ms. Ackerman could have been doing during 8th through the 10th hour.

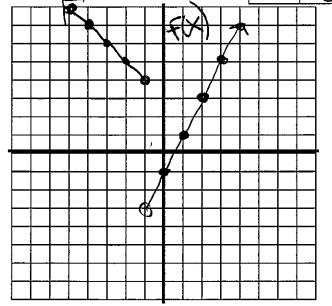
she stopped to eat with her friends is change her clothes.

AIM: HOW CAN WE GRAPH PIECEWISE FUNCTIONS? (Day 1)

1. On the following graph, complete the tables and graph the following piecewise function.

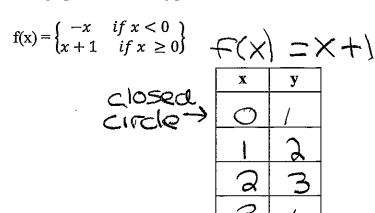


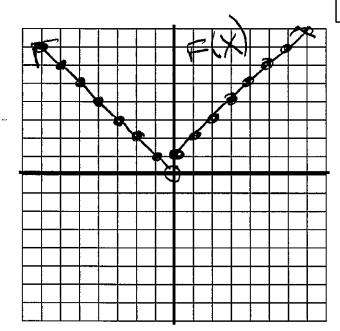




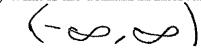
2. On the following graph, complete the tables and graph the following piecewise function.

F	(x)	=->	<
~~~	X	y	
open circle	0	0	
	-/	1	
	Ç	$\mathcal{C}$	
	ξ	M	
	-4	J	
	را (م)	J)	
	-0	W	

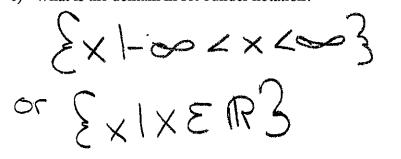




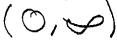
a) What is the domain in interval notation?



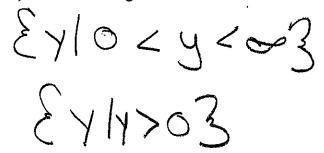
c) What is the domain in set builder notation?



b) What is the range in interval notation?



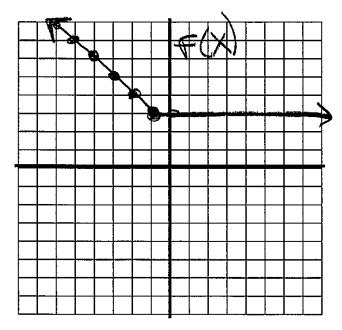
d) What is the range in set builder notation?



3. On the following graph, complete the tables and graph the following piecewise function

4	F(X	) = 3
- 1000	X	y
open circle	-1	3
	0	3
	1	3
	2	M
	3	$\emptyset$
:	4	B
	5	3

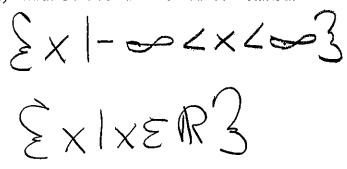
nd graph the following piecewise function.				
$f(x) = \begin{cases} 3, & \text{if } x > -1 \\ -x + 2, & \text{if } x \le -1 \end{cases}$	-×-	+2		
	Х	y		
closed		3		
CITCIE	7	4		
	(J	5		
	- 4	G		
	-5	7		
	-6	8		



a) What is the domain in interval notation?



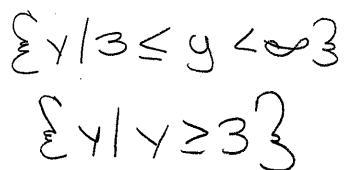
d) What is the domain in set builder notation?



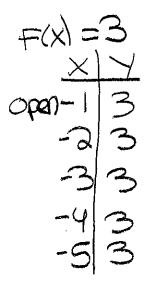
b) What is the range in interval notation?



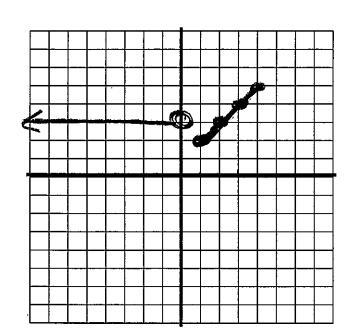
d) What is the range in set builder notation?

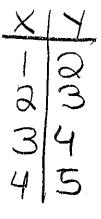


4. On the following graph, complete the tables and graph the following piecewise function.



$$f(x) = \begin{cases} 3, & x < -1 \\ x+1, & 1 \le x \le 4 \end{cases}$$





F(X) = -X+2

5. On the following graph, complete the tables and graph the following piecewise function.

$$f(x) = \begin{cases} x+4, & -6 \le x < 2 \\ -6, & x=2 \\ -x+2, & x > 2 \end{cases}$$

