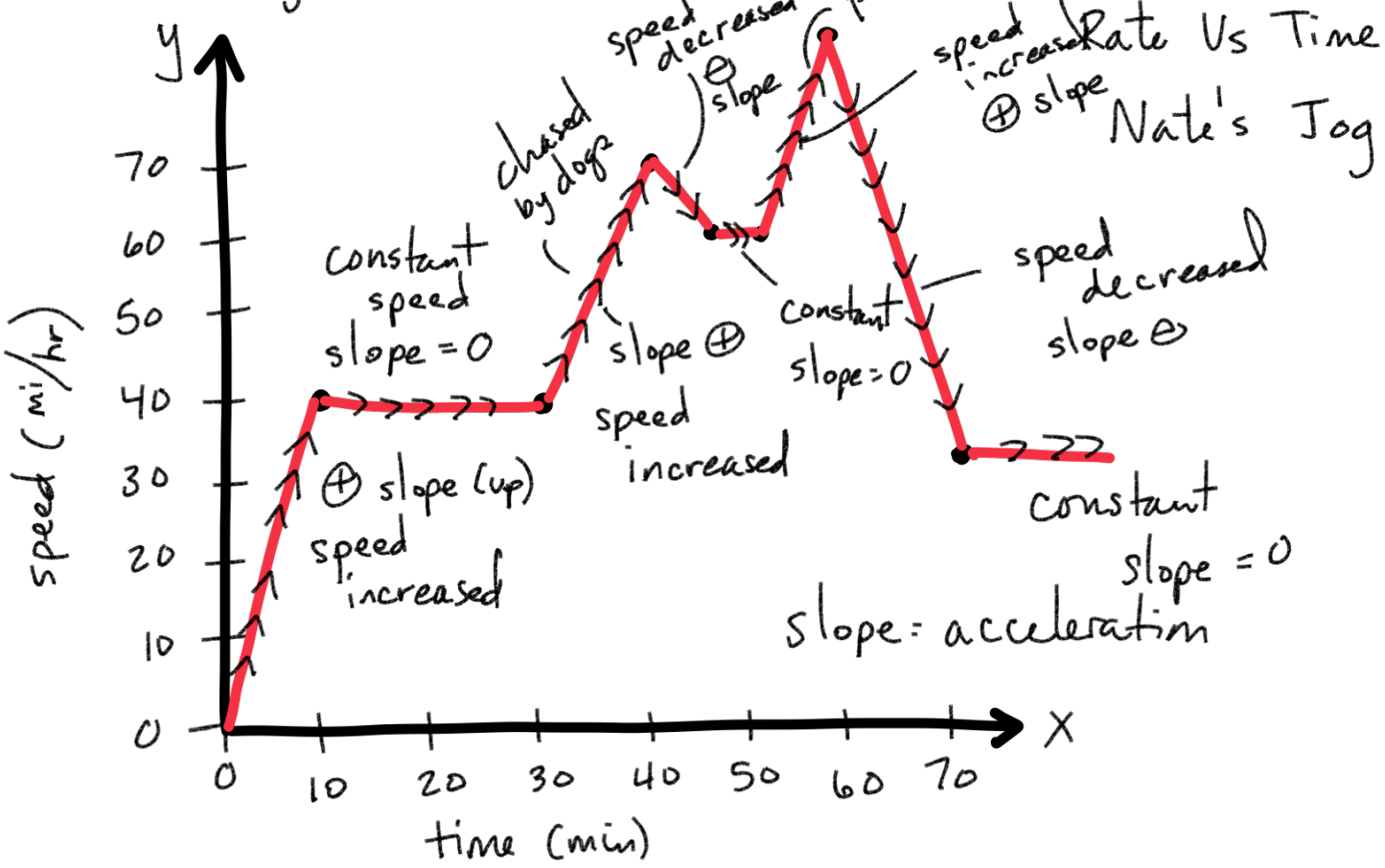
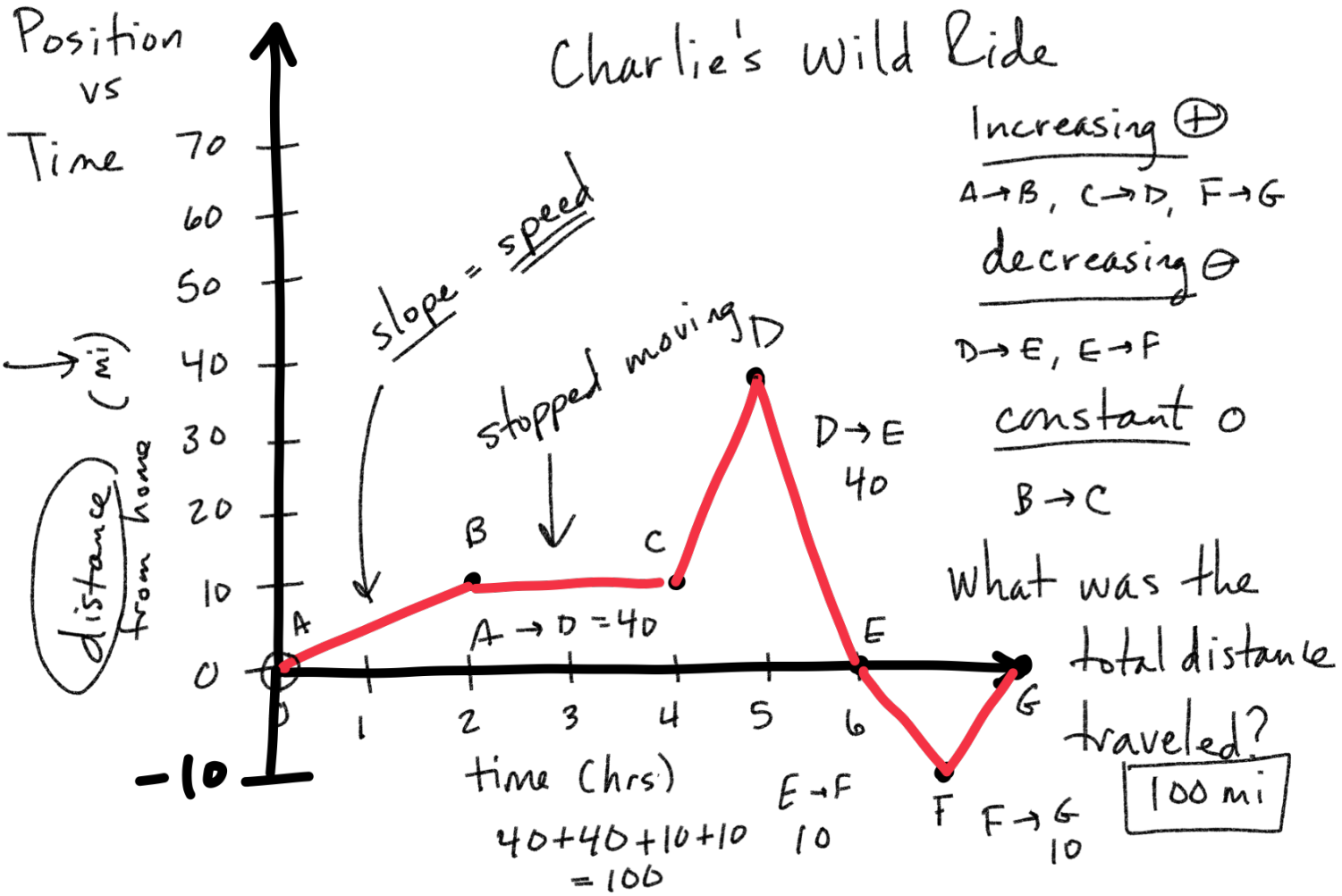
W-A1 Algebra 1 Week 24 pop° 3/13





Input / Output Functions

input → independent

output → dependent

input: # of samiches	output: $$
1	$5
2	$10
5	$25
28	$140

Not a function

Every one input must have one, and only one, output.

Function must be predictable

Corral (buffet)

# of plate	$$
1	$12
2	
5	
82	

function

multiple inputs can return the same output

① (x) input | (y) output

input	output
1	2
3	8
4	

Yaw! function

②

x	y
0	4
2	8
3	10

Naw!

X → input → independent variable

y → output → dependent variable

ordered pairs (x, y)

Each input must give you one, and only one, output

1.) (1, 3), (2, 4), (3, 5), (4, 5)

input output

function

x	y
1	3
2	4
3	5
4	

2.) (2, 7), (3, 9), (3, 12), (5, 12)

Naw! Not functin

3.) (0, 5), (1, 3), (0, 5), (2, 8), (3, 1)

function

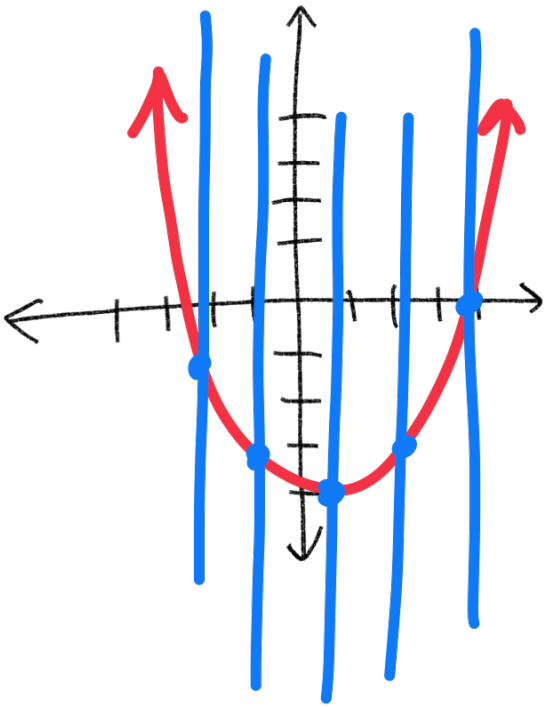
Domain → all inputs → all x values

Range → all outputs → all y values (x, y)

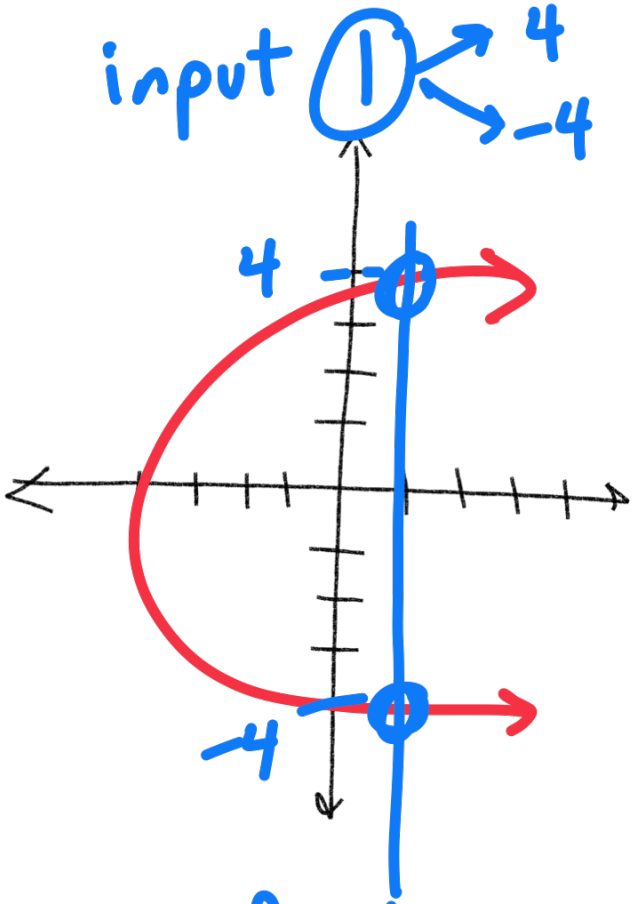
(2, 8) (3, 12) (4, 16) (6, 22) functin

Domain {2, 3, 4, 6} Range: {8, 12, 16, 22}

Vertical Line Test



function
input → 1 output



Not function

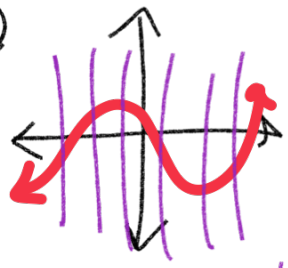
Function or naw?

$(1,2), (2,3), (2,4), (3,5), (4,6)$ Naw! Not Functim

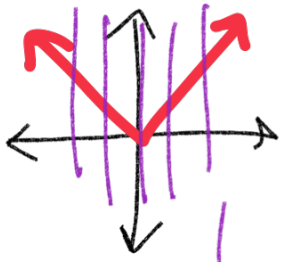
Find the domain and range Domain $\{0,1,2,5\}$

$[(0,-3), (1,8), (2,32), (5,78)$ Range $\{-3,8,32,78\}$

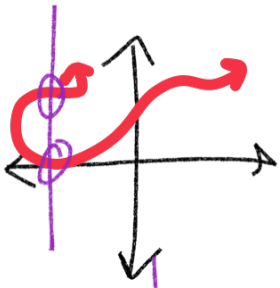
Function or naw?

① 

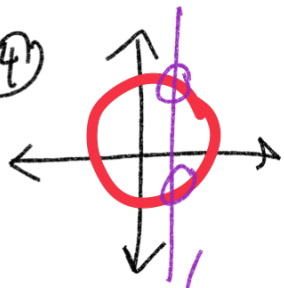
functim! yaw!

② 

yaw! functim

③ 

Naw! Not functim

④ 

Naw! Not functim