

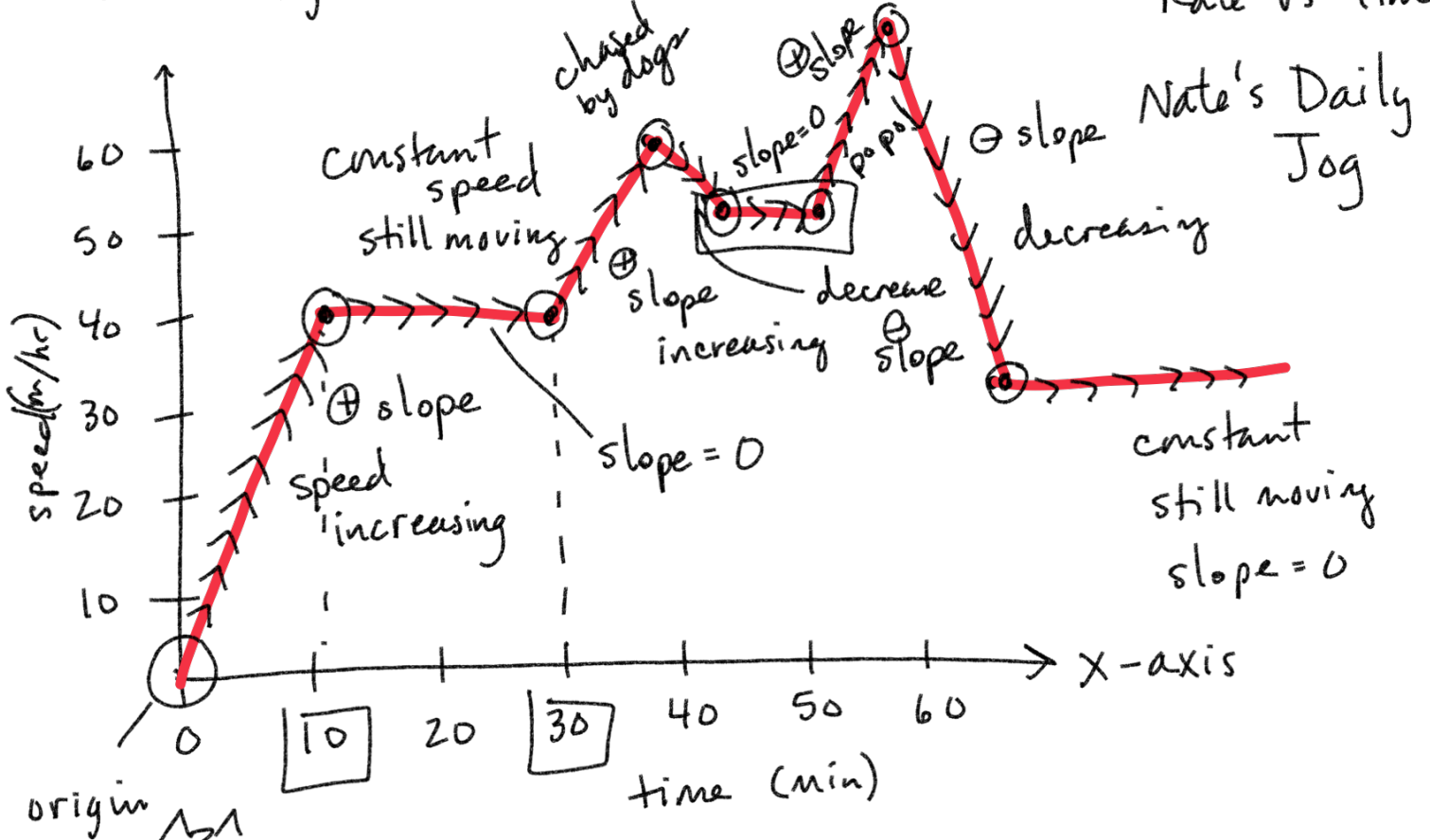
TH-A1

Algebra 1

Week 24

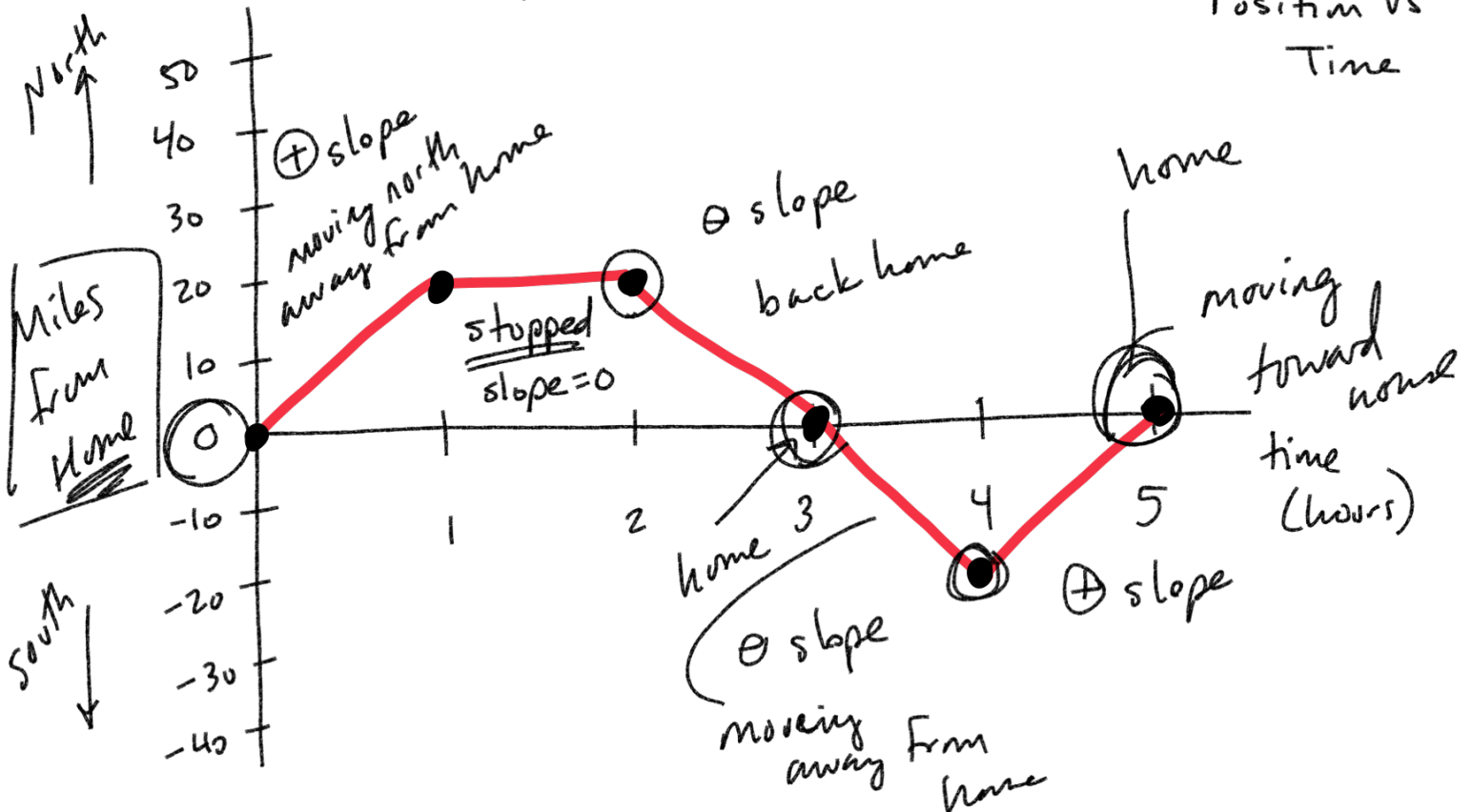
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Rate vs Time



Mr. Allen's Wild Ride

Position vs Time



Input/Output Functions

# of sandwiches	output
1	10
2	20
5	50
28	280

Functions → Predictable

Not a function

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

Buffet

# of plates	output
1	\$12
2	
5	
82	

Function

①

x	y
1	2
3	8
4	

function

②

x	y
0	4
2	8
3	10

Not function

1.) ordered pairs (x, y) $x \rightarrow$ input $y \rightarrow$ output
 $(1, 3), (2, 4), (3, 5), (4, 5)$ function

2.) $(2, 7), (3, 9), (3, 12), (5, 12)$ not function

each input must give you
 one-and only one-output

\sum $\begin{matrix} x & y \\ \downarrow & \downarrow \\ (2, 8), & (3, 12), & (4, 16), & (6, 22) \end{matrix}$

Domain \rightarrow all inputs - all x values

$\{2, 3, 4, 6\}$

Range \rightarrow all outputs - all y values

$\{8, 12, 16, 22\}$

Vertical Line Test

Fails vertical line test

