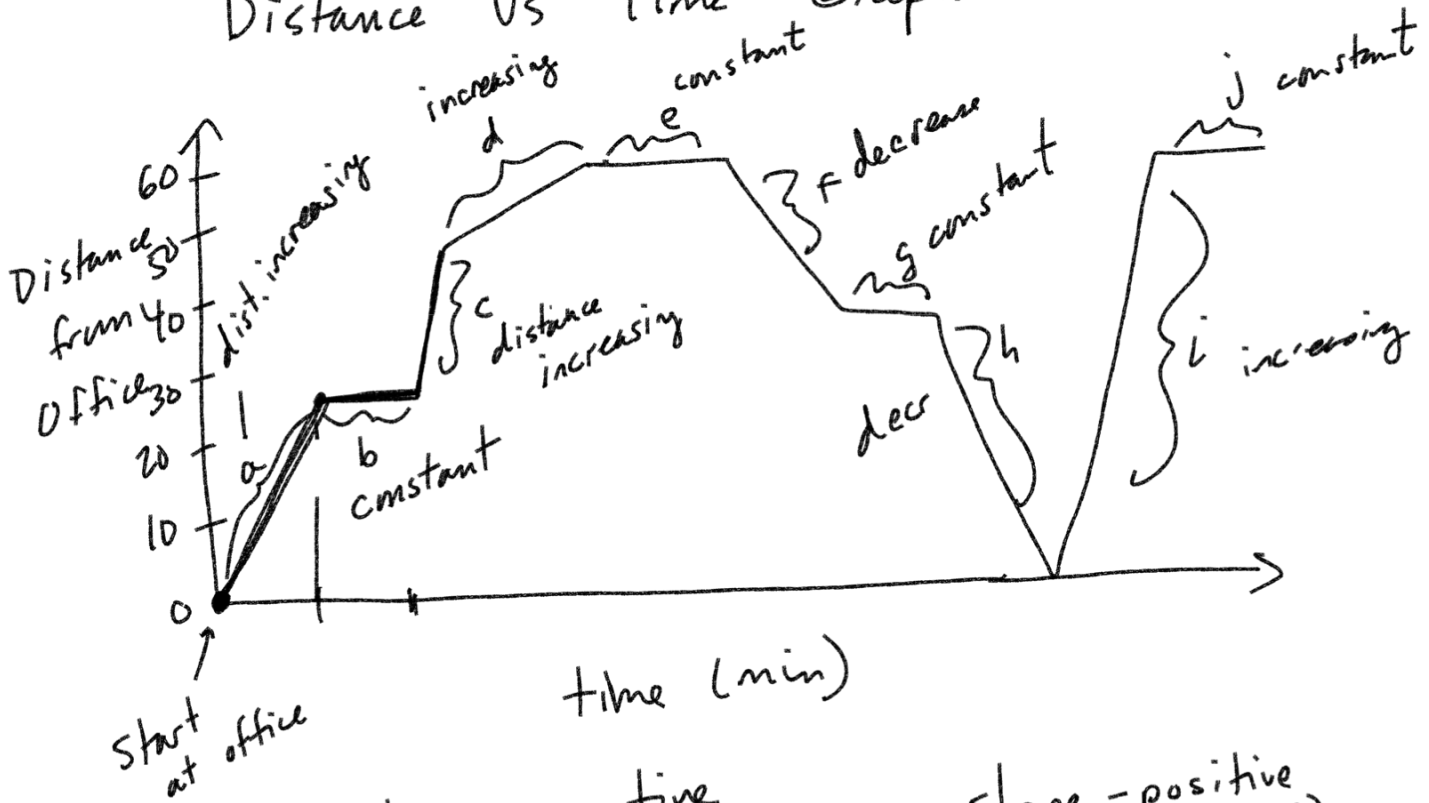


# Interpreting Graphs

## Distance Vs Time Graph

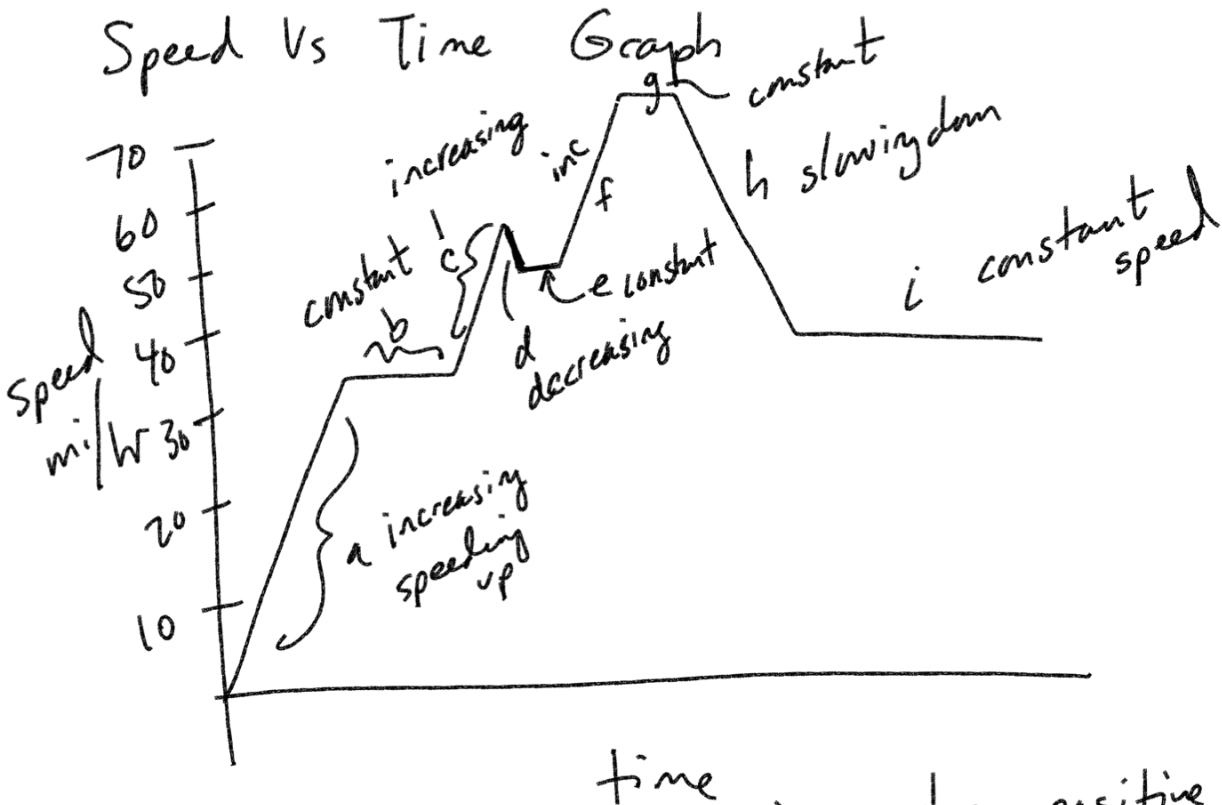


Start at office

slope - negative  
(downward)  
distance is decreasing

slope - positive  
(upward)  
distance is increasing  
slope -  $\emptyset$  (horizontal)  
not moving

# Speed Vs Time Graph



slope-negative (downward)  
slowing down

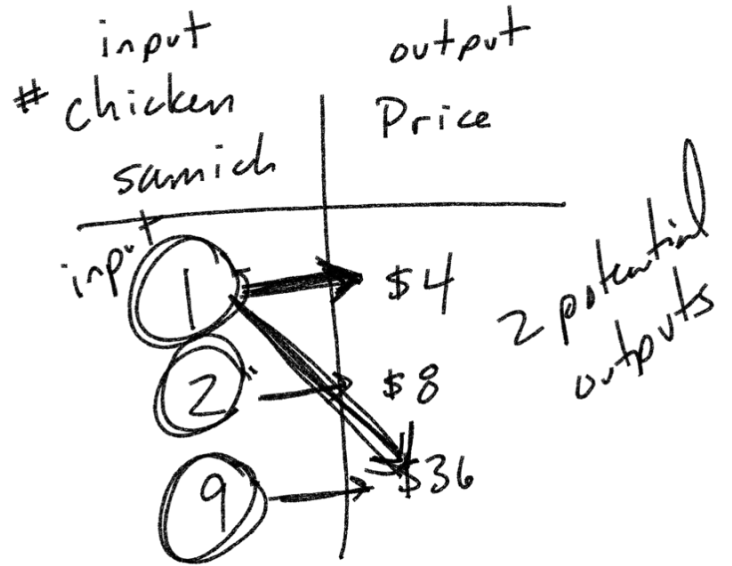
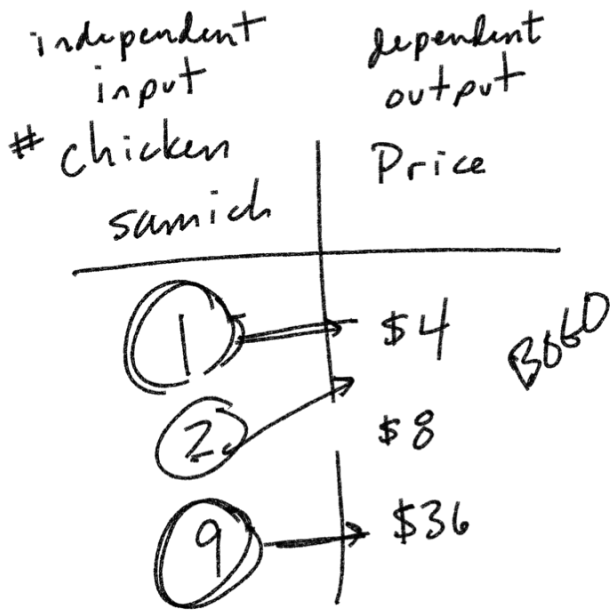
slope-positive (upward)  
speeding up

slope-0 (horizontal)  
continuous speed

Functions → predictable  
one-to-one correlation  
each input has one and only  
one output.

| input<br># chicken<br>sandwich | output<br>Price |
|--------------------------------|-----------------|
| 1                              | \$4             |
| 2                              | \$8             |
| 9                              | \$36            |

Function —  
each input has  
one and only  
one output

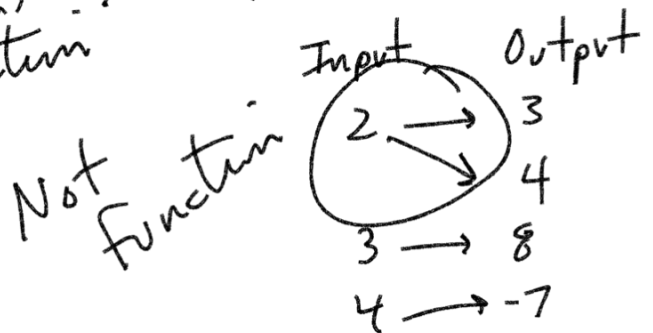
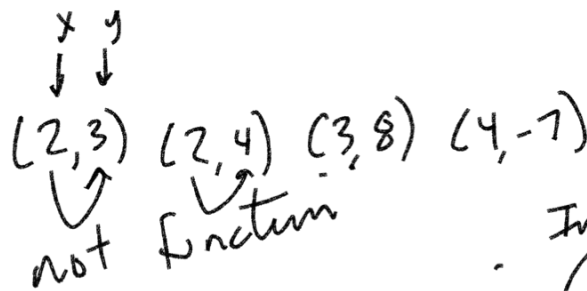
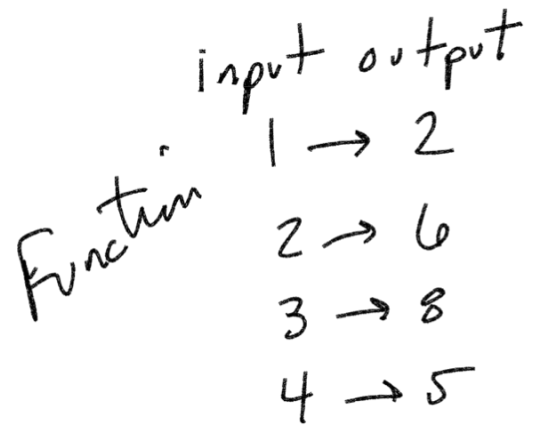
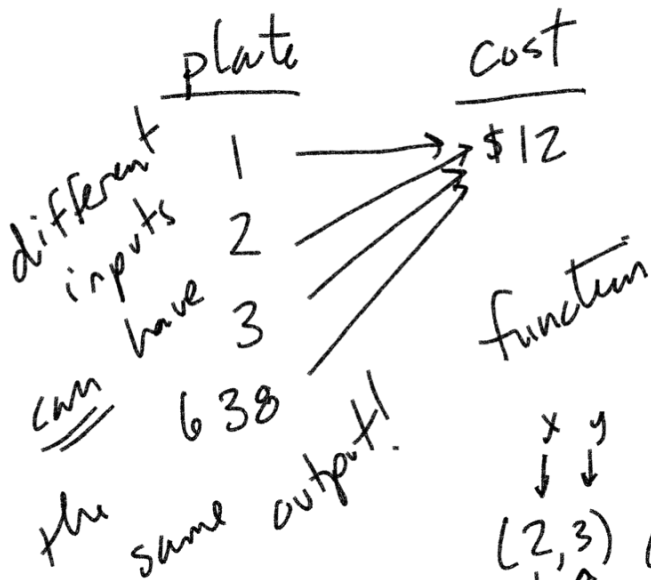
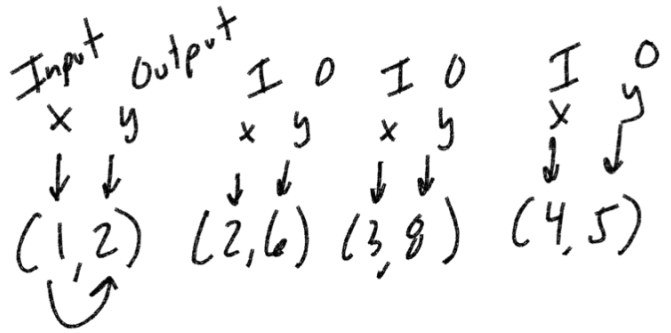


Function -

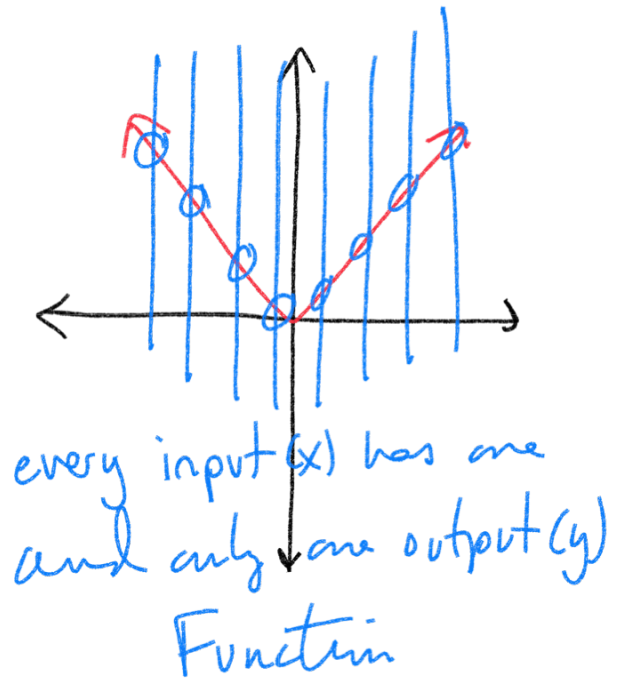
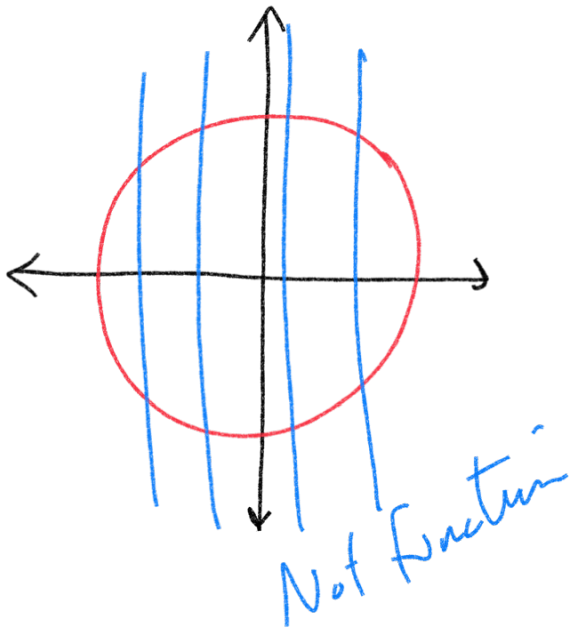
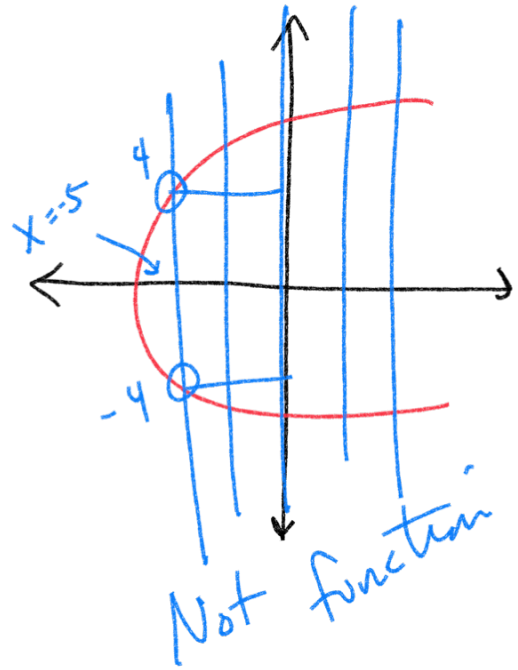
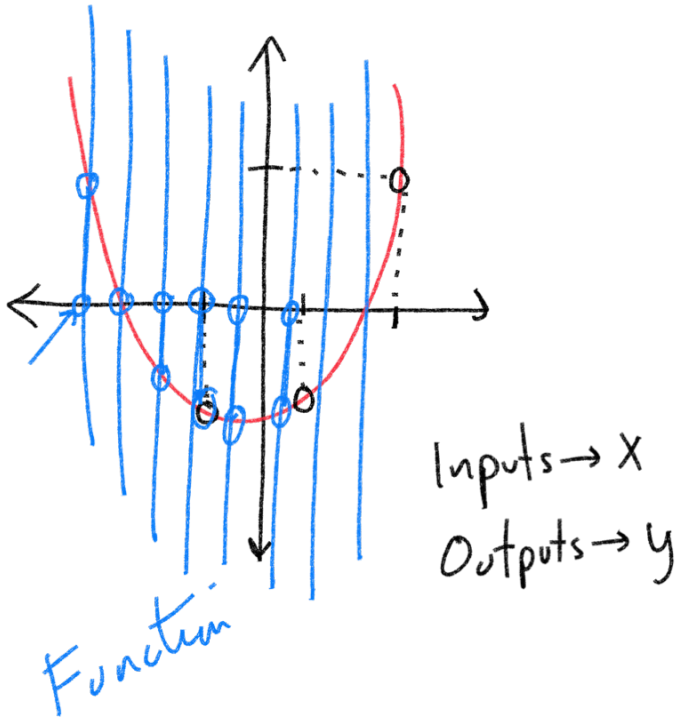
Each input has one and only one output

Golden Corral

Not a function



# Vertical Line Test



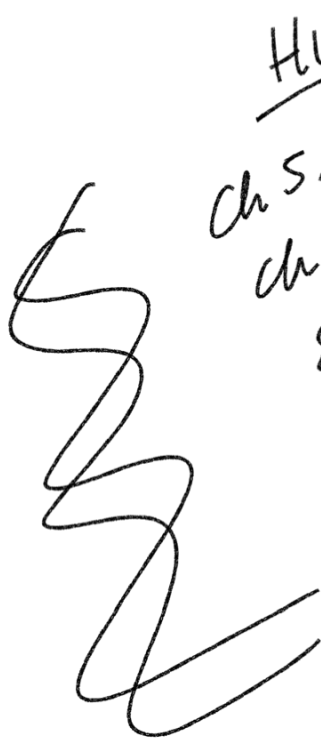
input  $\rightarrow x \rightarrow$  domain

output  $\rightarrow y \rightarrow$  range

$(\overset{x}{1}, \overset{y}{2})$   $(\overset{x}{2}, \overset{y}{6})$   $(\overset{x}{3}, \overset{y}{8})$   $(\overset{x}{4}, \overset{y}{9})$

Domain:  $\{1, 2, 3, 4\}$

Range:  $\{2, 6, 8, 9\}$



HW

ch 5.1 events

ch 5.2 events

Supplemental WS

Online HW 24

Quiz 24

HW/Quiz 22

March 19<sup>th</sup>

ch 4 Test

due March 23<sup>rd</sup>

} due April 6<sup>th</sup>