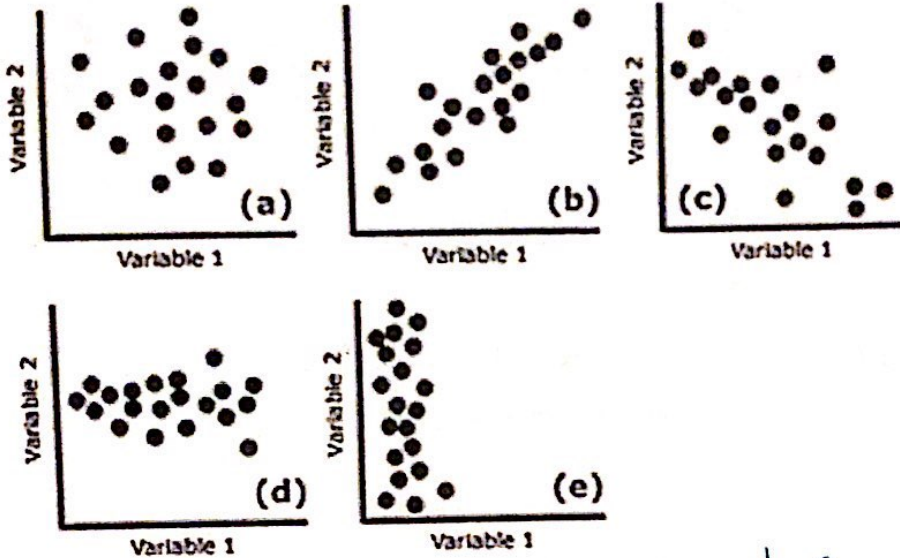**2 Day 10: No Correlation but Linear**
orizontal and Vertical Lines)

ocus Question: How do I describe a line that is not increasing or decreasing?

A: Special Linear Cases

1. Describe the correlation of each scatterplot below.

2. Which scatterplots did you call linear? **b, c, d, e**

3. Which scatterplots did you say had no correlation? **a**
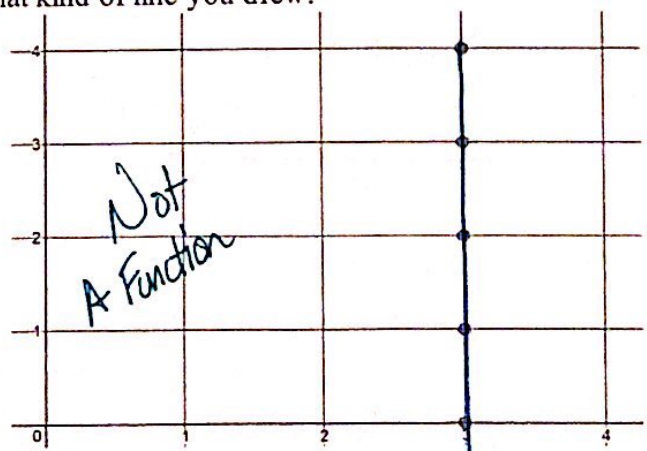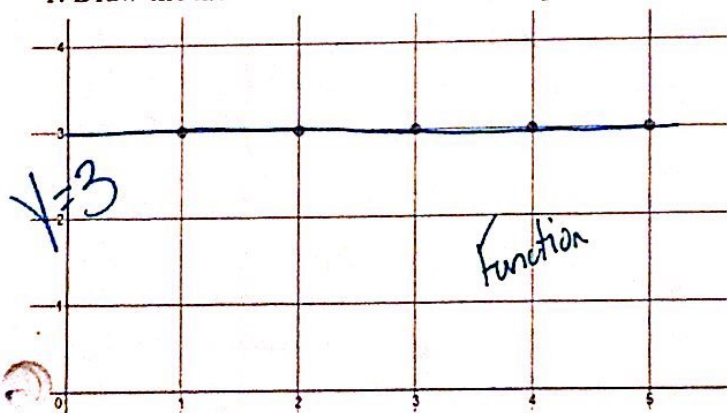
4. Looking back and #2 and 3, which scatterplots represent special cases? Explain.

d + e because they aren't positive or negative, but have a correlation

B. Vertical and Horizontal Lines

1. Draw the line would connect the data points? Describe what kind of line you drew.

2. Label each graph above as either a function or not a function.

3. Make a table for each graph
Label the table as horizontal or vertical and function or not a function.

4. In each table identify which variable is not changing.

5. Write an equation for each graph and table.

x	y
0	3
1	3
2	3
3	3
4	3

Equation: $y=3$

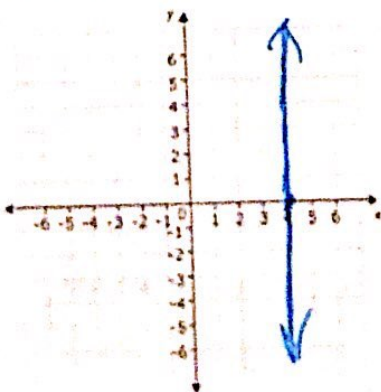| x	
3	0
3	1
3	2
3	3
3	4

Equation: $x=3$

6. Fill in the blanks:

A vertical line _is_ _not_ a function because the _independent_ _____ variable is not changing. It has an equation of x =#.
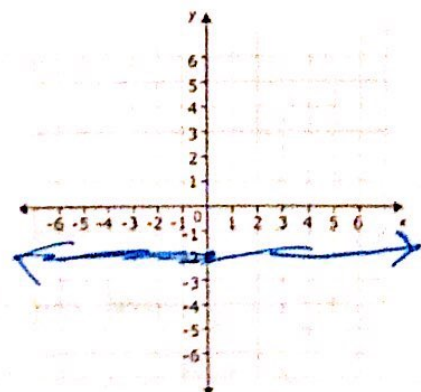
A horizontal (or _constant_____) line _is_ a function. The _dependent_____ variable is not changing so the equation is y = #.
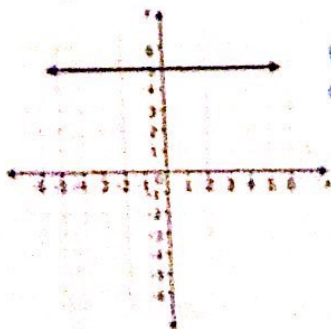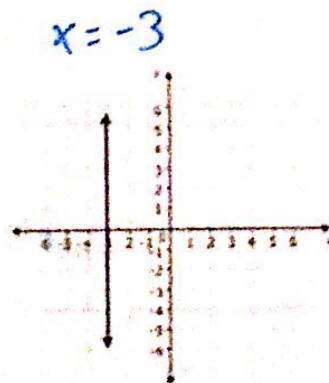
7. Graph each line.

$x = 4$

$y = -2$

8. Give the equation of each line

$y=5$

$x=-3$