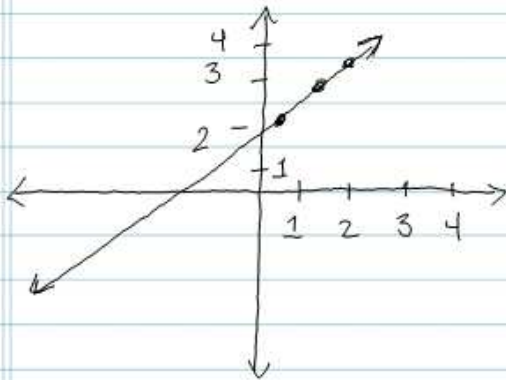


B1 Alg 2 9/12/11

SR

- SWBAT:
- Identify and tell the difference between a function and relation.
 - Determine the domain and range of a relation or function
 - Evaluate a function for a given value.

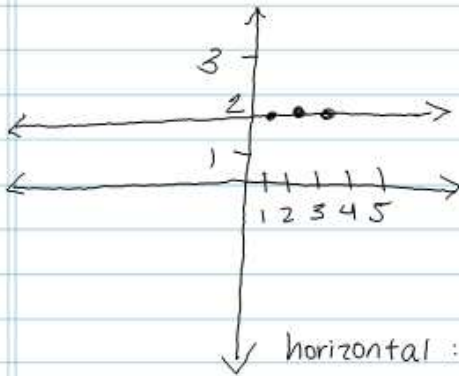
$x \rightarrow$ function $\rightarrow y$
 $x_1 \rightarrow$



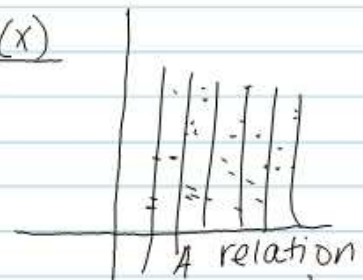
x	f(x)
1	2.5
2	3
3	4



$$\frac{y_2 - y_1}{x_2 - x_1}$$



x	f(x)
1	2
2	2



horizontal:

$$y = mx + b$$

$$y = 0x + 2$$

$$y = 0 + 2$$

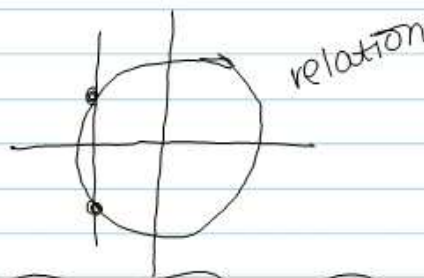
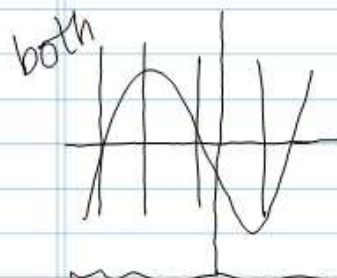
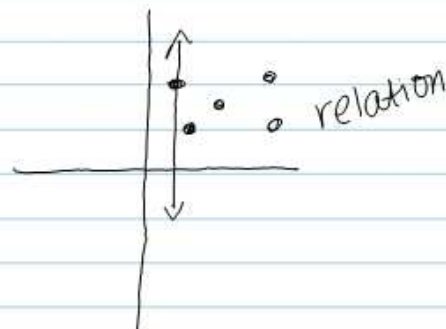
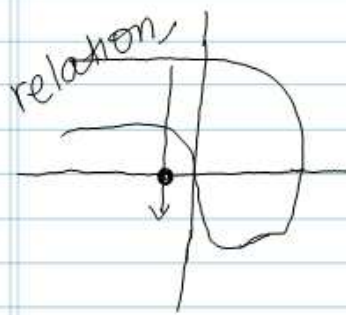
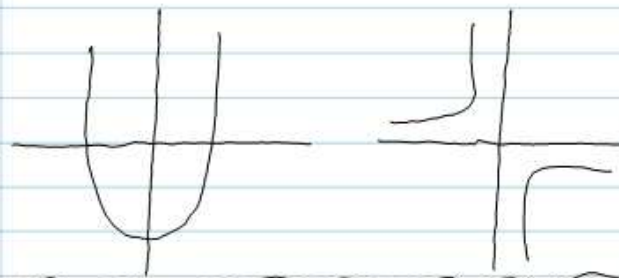
$$y = 2$$





They are all function + relations

all relations is b/c all are functions



Domain of a relation or function.

$$D = \{ \text{all inputs, 'x' value} \} \quad (2, 7) \quad (3, 5) \quad (6, 4) \quad (9, 10)$$

Range of a relation or function

$$R = \{ \text{all 'y' values in ordered pair} \}$$

$$D = \{ 2, 3, 6, 9 \}$$

$$R = \{ 7, 5, 4, 10 \}$$

It's a function because no repeating x's

(2,5) (3,7) (2,9) (6,8) relation, not a function

(2,5) (3,7) (2,5) (6,8) function, repeating points

did class work