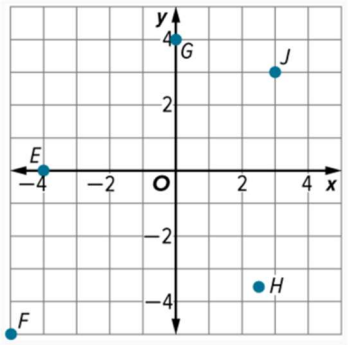
SC Algebra 1
3.2 Functions

Warm Up:

Name the ordered pair for each point.

1. ***E***
2. ***F***
3. ***G***
4. ***H***
5. ***J***

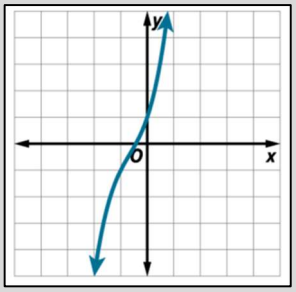


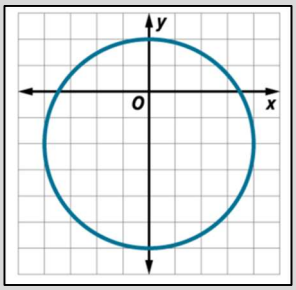
Speak Like A Mathematician:

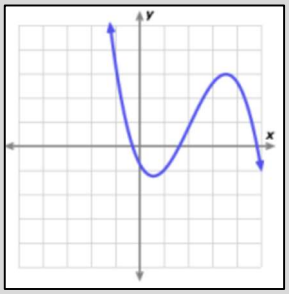
function: a relation in which each element of the _____ is paired with _____element of the _____.

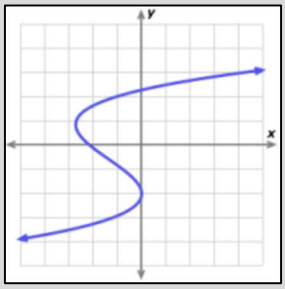
function notation: a way of writing an _____ so that $y =$ which is pronounced "_____ of _____. "

Key Concept: Vertical Line Test





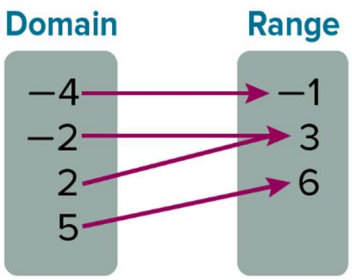




Example 1: Identifying Functions

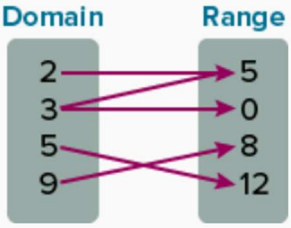
Determine whether each relation is a function. Explain.

a)



b) (2, 5), (4, 7), (8, 11), (4, 13)

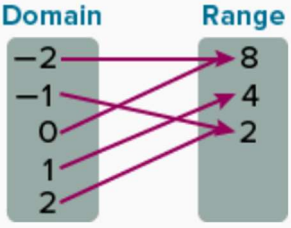
c)



d)

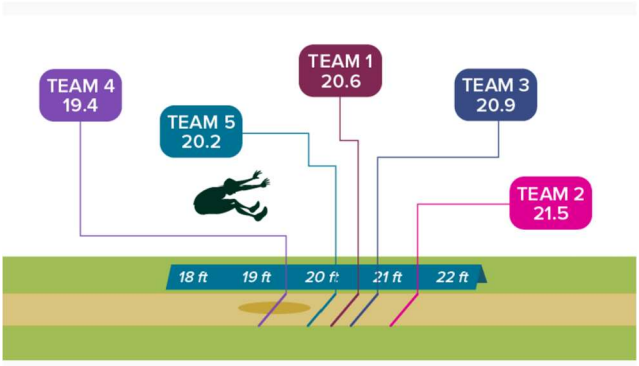
Domain	−4	−3	0	2	5
Range	2	3	6	8	11

e)



Example 2: Analyze Data

Five schools are competing in the long jump portion of a track meet. The distances of the players with the best jump on each team are shown below:



a) Make a table.

b) Determine the domain and range of the relation.

c) Determine if this relation is a function. Explain.

Madison took 5 quizzes this semester. Her scores on the quizzes were as follows: Quiz 1: 86, Quiz 2: 92, Quiz 3: 78, Quiz 4: 86, Quiz 5: 84.

What is the domain? What is the range?

Is this a function?