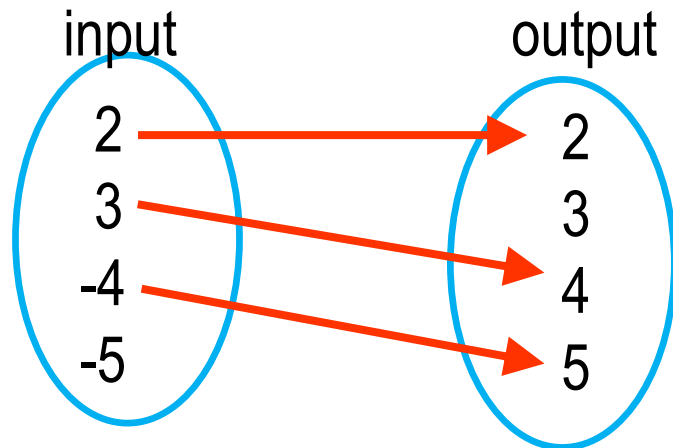
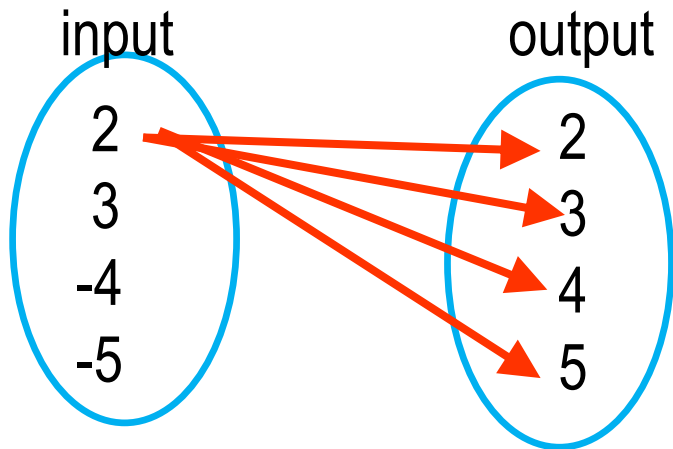
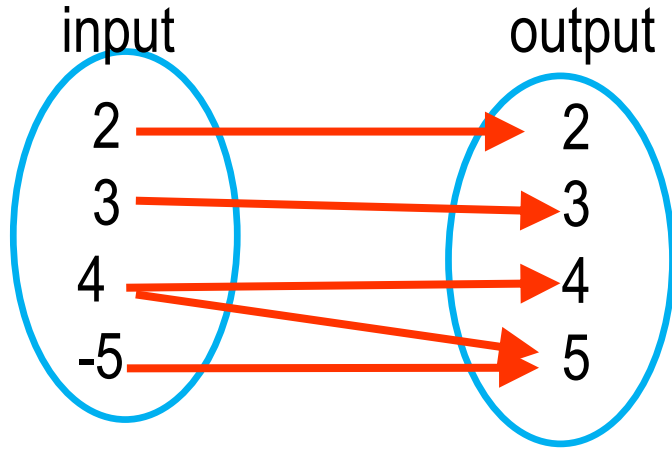
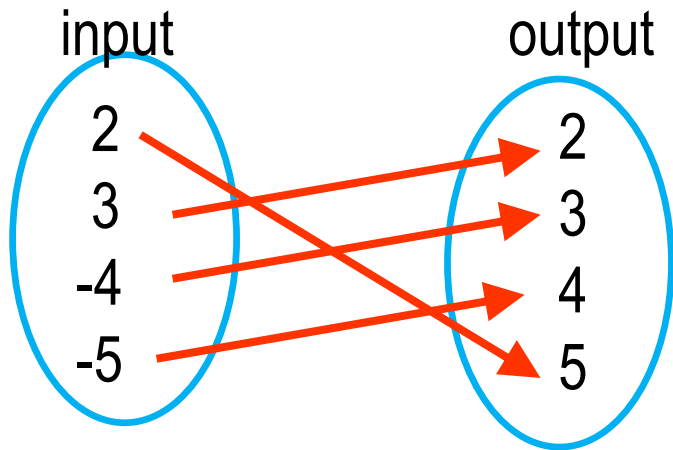
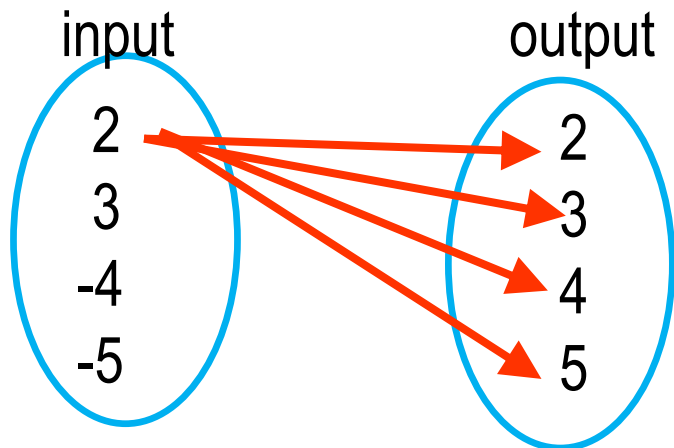


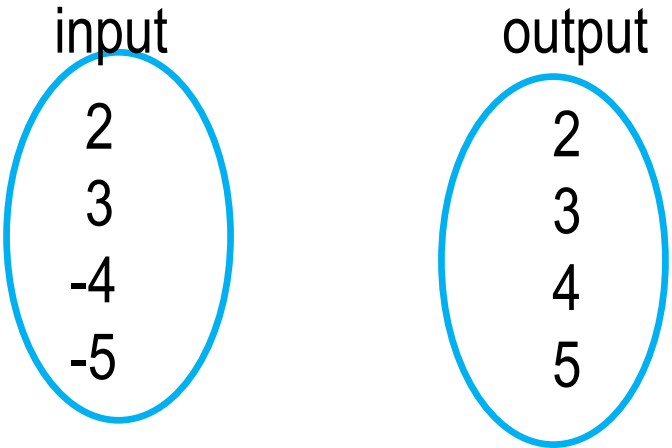
SM3-A Lesson 1-1 Handout (Linear Function)

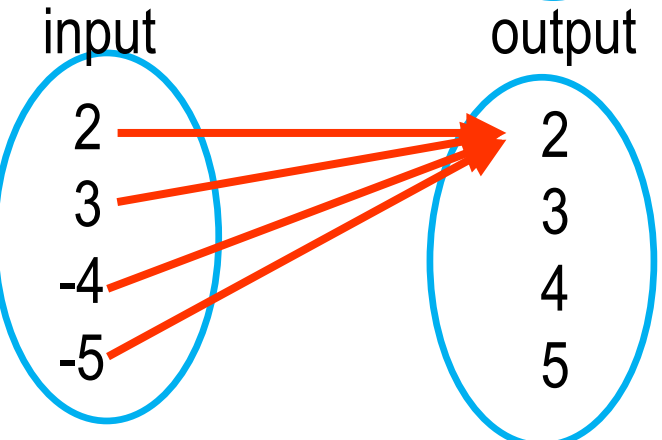


Is it a function?

Is it a function?







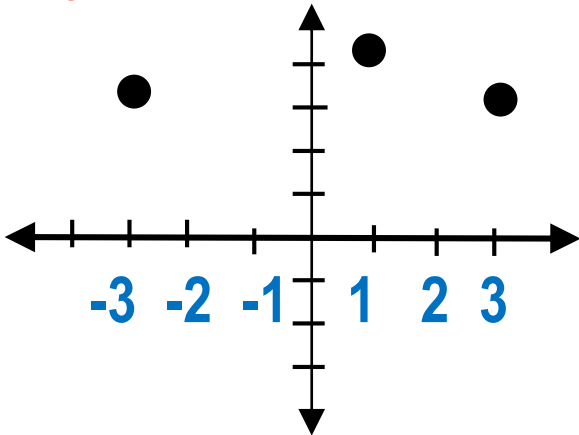
Identify the Domain

1. $(2, 4), (3, 5), (-4, 2)$

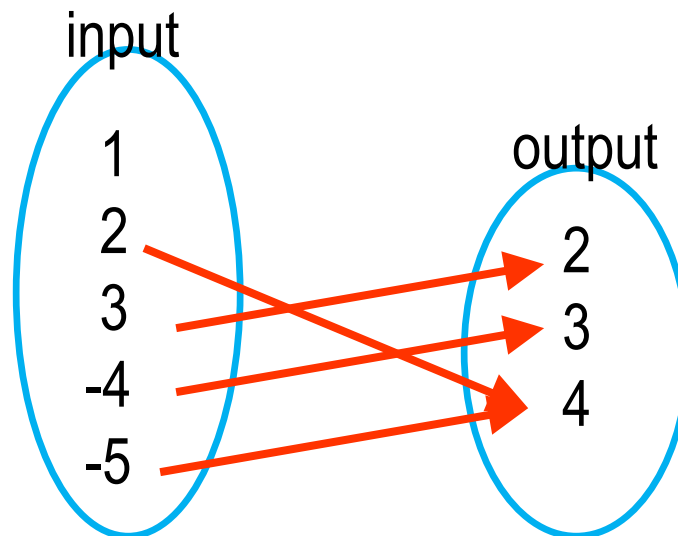
2.

x	6	9	-2
y	4	7	3

3.



4.



What are 6 ways you can show a relation
between input and output ?

Which of the following equations is “ 'y' a function of x”?

$$x = \frac{1}{2}y - 3$$

$$y = 2x + 6$$

Fill in the table then graph
x-y pairs from the table.

$$y = 3x + 1$$

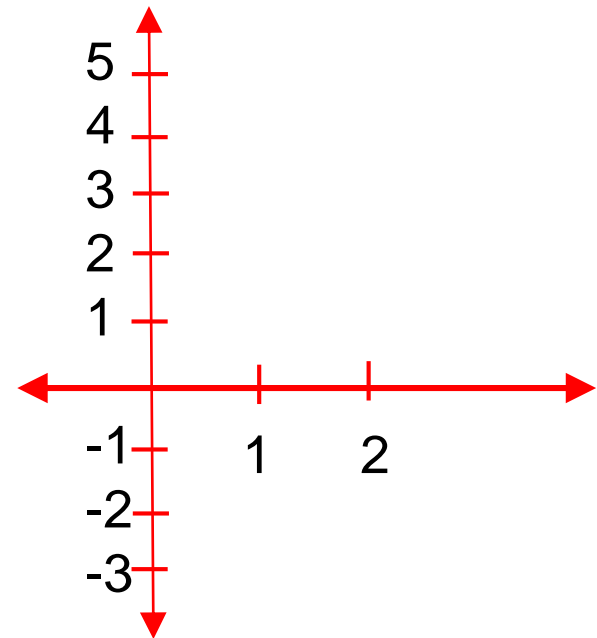
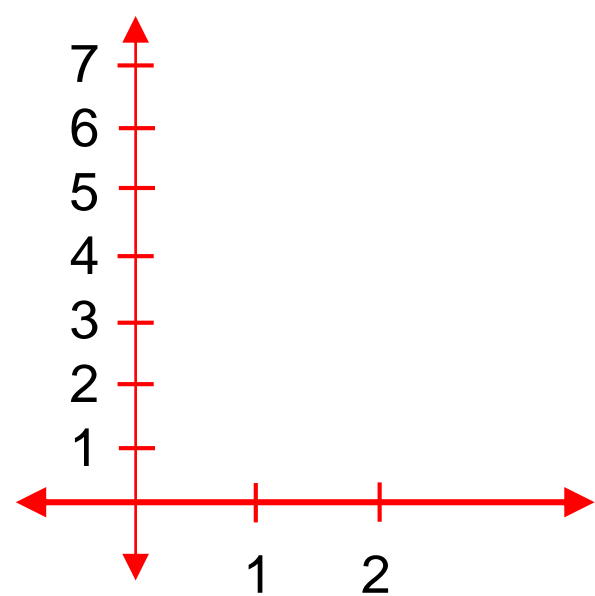
x	0	1	2
y			

y-intercept: the x-y pair where a
graph crosses the y-axis.

Solution of a two-variable equation:
all x-y pairs that make the
equation true.

$$y = 4x - 3$$

x	0	1	2
y			



Does the table represent the
complete solution? _____

Does the graph represent the
complete solution? _____

Fill in the table then graph
x-y pairs from the table.

$$f(x) = x^2 + 2$$

x	0	1	2
y			

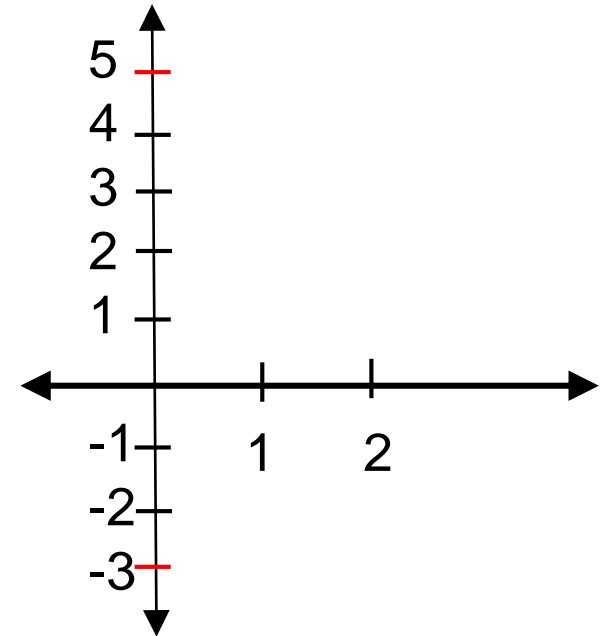
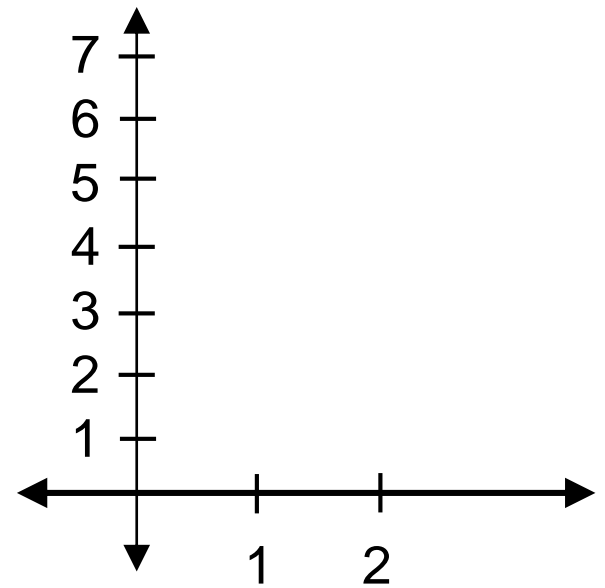
y-intercept: always results from $f(0)$.

Solution of a two-variable equation:

all x-y pairs that make the
equation true.

$$g(x) = -2x^2 + 3x + 4$$

x	0	1	2
y			



Why doesn't the table represent
the complete solution?

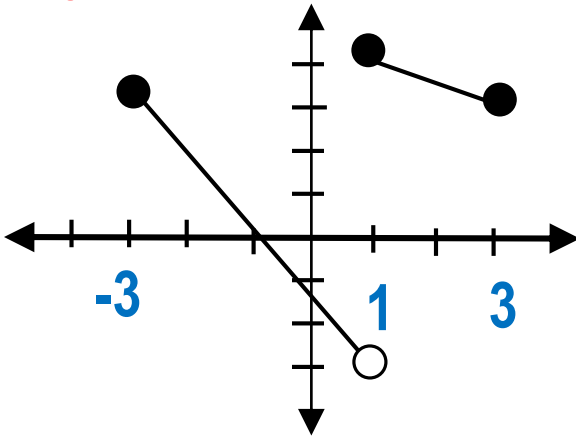
Is it a function? If not, why not?

1. $(2, 4), (3, 5), (-4, 5)$

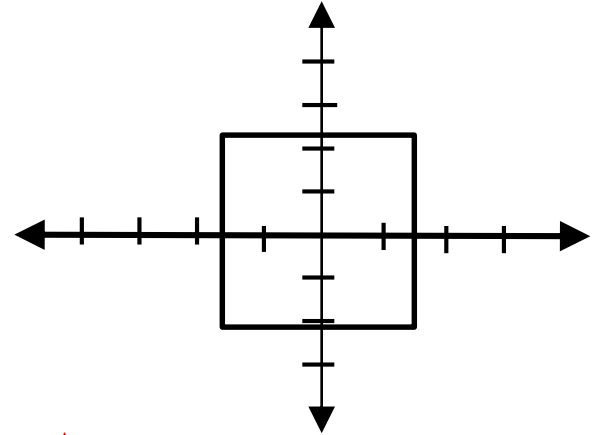
2.

x	6	6	-2
y	4	7	3

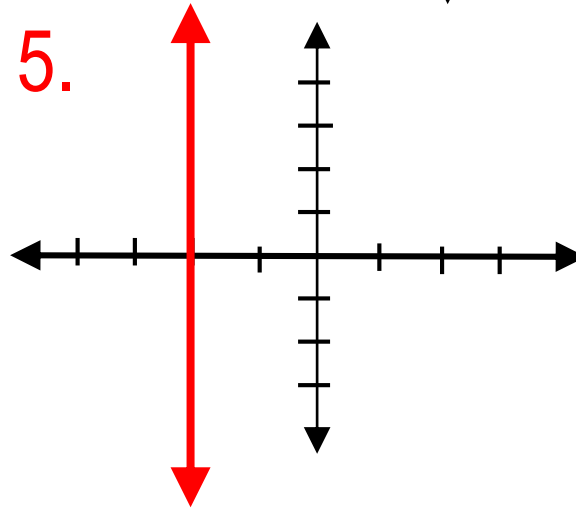
3.



4.



5.



1. Convert $(2, 4)$, $(3, 5)$, $(-4, 5)$ into a table

2. Convert $f(3) = 6$, $f(-2) = 1$, $f(6) = -5$ into a table

3. Convert $(2, 4)$, $(3, 5)$, $(-4, 5)$ into “function notation.”

4. What special point does $f(0) = 7$ represent?

5. What special point does $f(3) = 0$ represent?