

### **Ordered Pairs**

### Table

## Mapping

(1	, 2	)
(-	-2,	4
(0		-3

X	у
1	2
-2	4
0	-3

2)
X
:)

Graph

Domain	Range
	2
0	-3

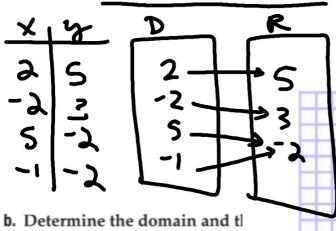
D: 1,-2,0

R: 2,4,-3

### **Example 1** Representations of a Relation

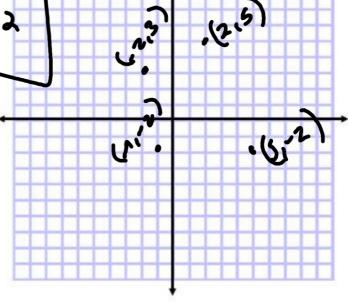


a. Express  $\{(2, 5), (-2, 3), (5, -2), (-1, -2)\}$  as a table, a graph, and a mapping.

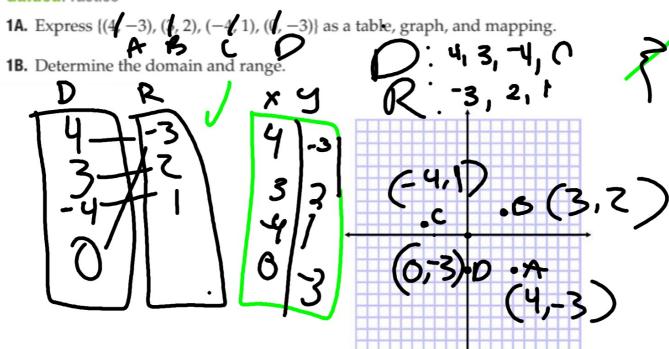


D: 2,-2,5,-1

R: 5,3,-2



#### **Guided**Practice







Identify the independent and dependent variables for each relation.

a. DANCE The dance committee is selling tickets to the Fall Ball. The more tickets that they sell, the greater the amount of money they can spend for decorations.

i: number of tickets

d: amount of \$

Which thing causes the other thing?

b. MOVIES Generally, the average price of going to the movies has steadily increased over time.

time price

price

price

price

price

price

year

higher

y

Identify the independent and dependent variables for each relation.

- **2A.** The air pressure inside a tire increases with the temperature.
- 2B. As the amount of rain decreases, so does the water level of the river.



# PT

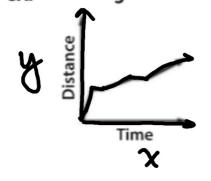
## **Example 3** Analyze Graphs

The graph represents the distance Francesca has ridden on her bike. Describe what happens in the graph.



Describe what is happening in each graph.

3A. Driving to School



3B. Change in Income



