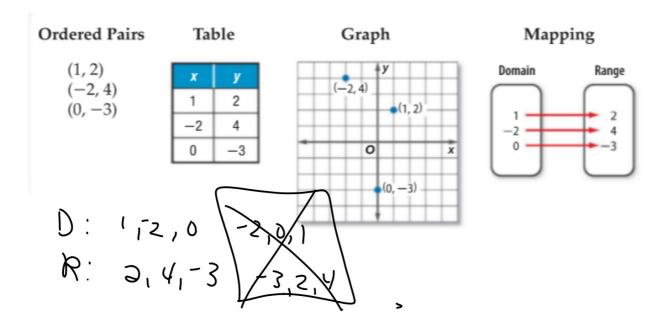
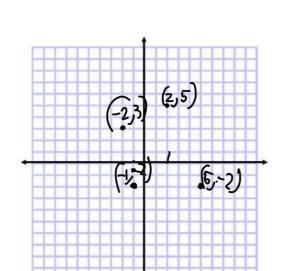
```
Algebra 1 1.6
Represent relations
Interpret graphs of relations
coordinate system
ordered pair (×, y)
x-coordinate
y-coordinate
relation
mapping
domain × S ]
range y'S ]
independent variable - Cause x
dependent variable - what happend y
```

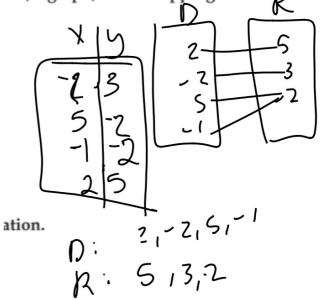


Example 1 Representations of a Relation



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





b. Detern

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GuidedPractice

1A. Express $\{(4, -3), (3, 2), (-4, 1), (0, -3)\}$ as a table, graph, and mapping.

1B. Determine the domain and range.





Identify the independent and dependent variables for each relation.

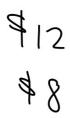
a. DANCE The dance committee is selling tickets to the Fall Ball. The more tickets that they sell, the greater the amount of money they can spend for decorations.

Which thing causes the other thing?



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

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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.



Example 3 Analyze Graphs

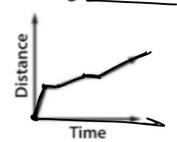


The graph represents the distance Francesca has ridden on her bike. Describe what happens in the graph.



Describe what is happening in each graph.

3A. Driving to School



3B. Change in Income

