

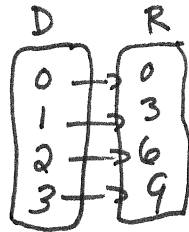
Section 4.1 Day 1 Notes

Name: Notes Key

Objective: I can represent mathematical relationships using graphs.

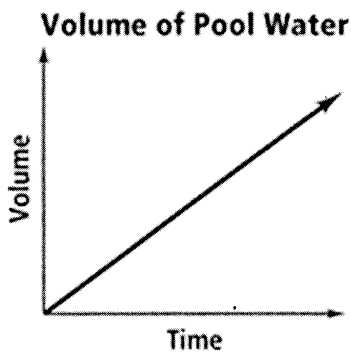
Ex 1) Create a mapping diagram for the relation shown and determine if it is a function. If it is, describe the patterns of inputs and outputs. If not, explain why.

{(0, 0), (1, 3), (2, 6), (3, 9)}



yes a f_xn
y = 3x

Graphs can be used to visually represent the relationship between two variable quantities as they both change.

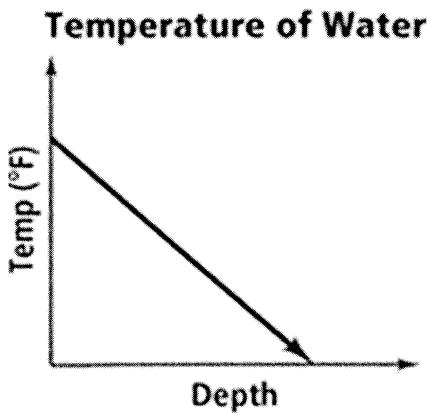


What are the variables?

time and volume
(domain (range

Describe how the variables are related at various points on the graph.

The volume increases at a constant rate as time increases

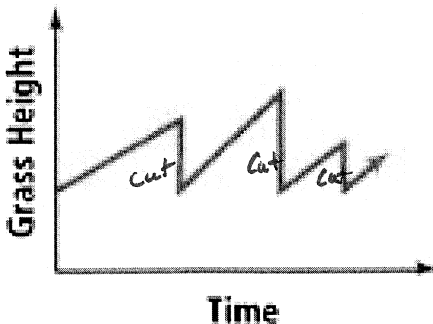


What are the variables?

depth and temp
domain range

Describe how the variables are related at various points on the graph.

temp decreases at a constant rate as the depth increases



What are the variables?

time grass height
domain range

Describe how the variables are related at various points on the graph.

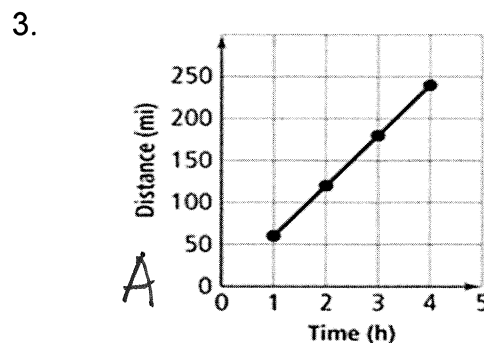
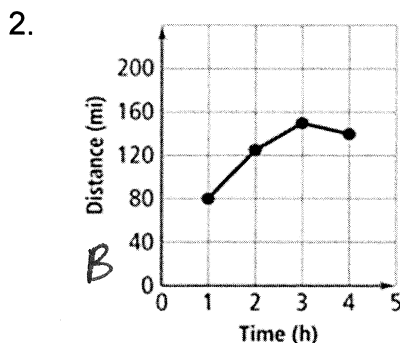
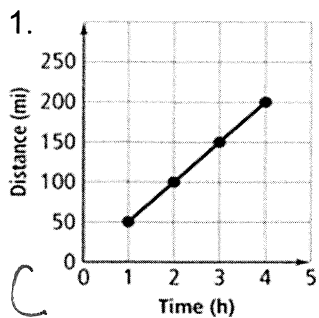
grass grows at a constant rate until they cut the grass
grass grows then gets cut

Section 4.1 Day 1 Notes

Name: _____

Objective: I can represent mathematical relationships using graphs.

Match each graph with its related table. Explain your answers.



A.

3

Time (h)	Distance (mi)
1	60
2	120
3	180
4	240

B.

2.

Time (h)	Distance (mi)
1	80
2	125
3	150
4	140

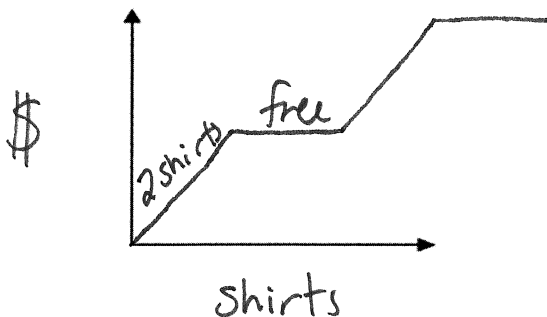
C.

1

Time (h)	Distance (mi)
1	50
2	100
3	150
4	200

Sketch a graph to represent the situation. Label each section.

a) You buy two shirts.
The third one is free.



b) The temperature warms up during the day and then decreases at night.



c) Error Analysis DVDs cost \$19.99 each for the first 2 purchased. After that, they cost \$5.99 each. Describe and correct the error in sketching a graph to represent the relationship between the total cost and the number of DVDs purchased.

the total would still go up

