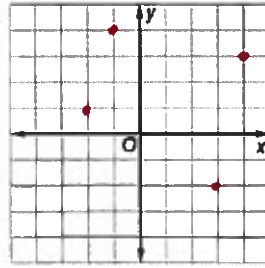Name: **Key**

1. Express {(4, 3), (−1, 4), (3, −2), (−2, 1)} as a table, a graph, and a mapping. Then determine the domain and range.

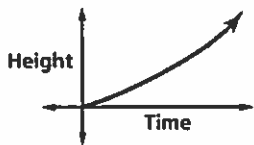| X	Y
4	3
−1	4
3	−2
−2	1

I → O

4 → 3
−1 → 4
3 → −2
−2 → 1

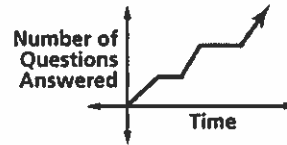D: 4, 3, −1, −2

R: 3, 4, −2, −1

Describe what is happening in each graph.

2. The graph below represents the height of a tsunami as it travels across an ocean.

Height / Time

The more time that elapses, the higher the tsunami.

3. The graph below represents ~~a tsunami as it travels across an ocean.~~ student taking an exam.

Number of Questions Answered / Time

↑ TYPO?
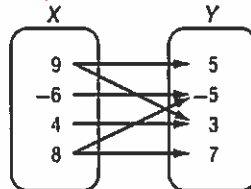
The more time, the more questions answered.

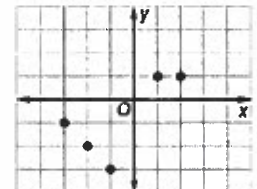**Express the relation shown in each table, mapping, or graph as a set of ordered pairs.**

4.

X	Y
0	9
−8	3
2	−6
1	4

(0, 9) (−8, 3) (2, −6) (1, 4)

5.

(9, 5) (9, 3) (−6, −5) (−4, 3)
(8, −5) (8, 7)

X → Y
9, −6, 4, 8 → 5, −5, 3, 7

6.
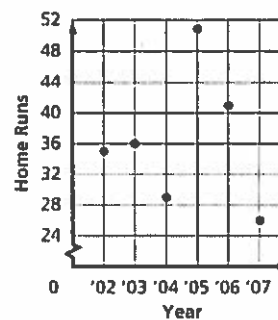
(−3, −1) (−2, −2)
(−1, −3) (1, 1) (2, 1)

7. BASEBALL The graph shows the number of home runs hit by Andruw Jones of the Atlanta Braves. Express the relation as a set of ordered pairs. Then describe the domain and range.

D: 2, 3, 4, 5, 6, 7

R: 35, 36, 29, 51, 41, 26

Andruw Jones' Home Runs

(2, 35)
(3, 36)
(4, 29)
(5, 51)
(6, 41)
(7, 26)

8. Determine if the given function is continuous or non-continuous.

Continuous