

CHAPTER 5 Modelling With Graphs
5.6 Connecting Variation, Slope, and First Differences
The Rule of Four

Example:

Use the Rule of Four to represent this relation in three other ways.

x	y
-2	-5
0	-1
2	3
4	7

Solution:

Use a graph:

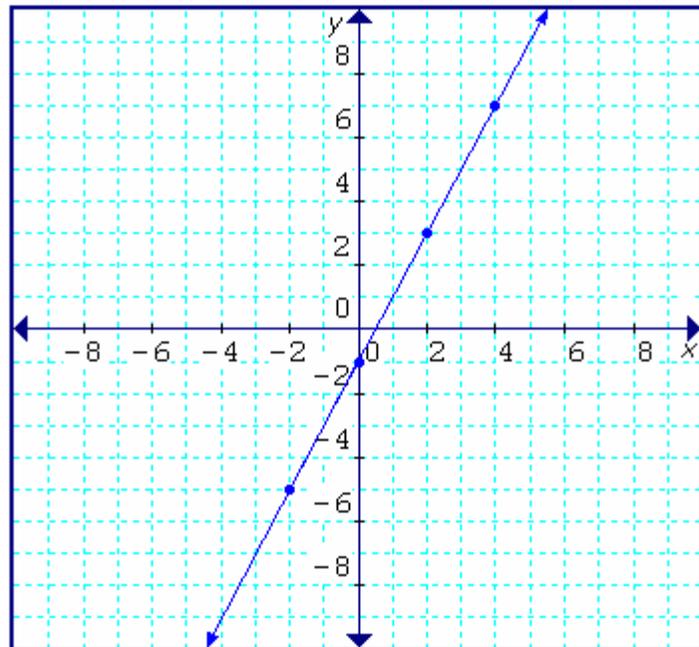
The graph is shown.

Use words:

The relation is a straight line. It passes through the vertical axis at -1 . The slope of the line is 2.

Use an equation:

The equation of the line is $y = 2x - 1$.



Practice:

Use the Rule of Four to represent this relation in three other ways.

x	y
-3	9
-1	5
1	1
3	-3

Answers:

Use a graph:

The graph is shown.

Use words:

The relation is a straight line. It passes through the vertical axis at 3. The slope of the line is -2 .

Use an equation:

The equation of the line is $y = -2x + 3$.

