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Module 9 **Using Functions**

Lesson 3 Writing Functions from Patterns

Lesson Objectives

- Write a function rule for a linear pattern.
- Write a function rule for a nonlinear pattern.

A function *f* had the following input/output values.

Write an equation to define the function *f*, and

use it to find the output when the input is -9.

by a friend. Write a function for the pattern in the table._

Input	Output	
5	53	
4	4 3	
3	1	

DATE

0
4

John was given the following input/output table

Input	Output
-1	0
4	0
6	0
10	0

To find a function rule for a linear pattern, use the $_$

along with one of the input/output pairs in the pattern to determine the *y*-intercept. Then, write the rule in slope-intercept form.



(3) Write a function for the pattern shown in the table.

Input	Output
2	1
4	-1
6	-3
8	-5

(4

Find a function containing the following ordered pairs: (0, 5), (3, 7),

est	(6,	9),	(9,	11)	
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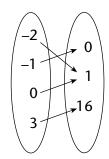
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5 Write a function for the input/output table.

6 Write a function for the given mapping.

Input	Output
0	0
1	1
4	2
9	3
25	5



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