

1

CHAPTER REVIEW

1.6 Represent Functions as Rules and Tables

pp. 35–40

EXAMPLE

The domain of the function $y = 3x - 5$ is 2, 3, 4, and 5. Make a table for the function, then identify the range of the function.

x	2	3	4	5
$y = 3x - 5$	$3(2) - 5 = 1$	$3(3) - 5 = 4$	$3(4) - 5 = 7$	$3(5) - 5 = 10$

The range of the function is 1, 4, 7, and 10.

EXERCISES

Make a table for the function. Identify the range of the function.

35. $y = x - 5$
Domain: 10, 12, 15, 20, 21

36. $y = 3x + 1$
Domain: 0, 2, 3, 5, 10

Write a rule for the function.

37.

Input, x	0	2	4	5
Output, y	4	6	8	9

38.

Input, x	0	3	4	6
Output, y	0	15	20	30

EXAMPLES 1, 3, and 4

on p. 35–37
for Exs. 35–38

1.7 Represent Functions as Graphs

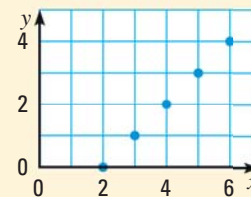
pp. 43–48

EXAMPLE

Write a rule for the function represented by the graph. Identify the domain and the range of the function.

Make a table for the graph.

x	2	3	4	5	6
y	0	1	2	3	4

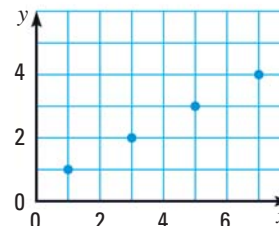


Each y -value is 2 less than the corresponding x -value. A rule for the function is $y = x - 2$. The domain is 2, 3, 4, 5, and 6. The range is 0, 1, 2, 3, and 4.

EXERCISES

39. Graph the function $y = 4x - 3$ with domain 1, 2, 3, 4, and 5.

40. Write a rule for the function represented by the graph. Identify the domain and the range of the function.



EXAMPLES 1, 3, and 4

on pp. 43–45
for Exs. 39–40