Name _____ Class _____ Date _____

Lesson 7-4

Graphing Functions

Lesson Objective	Common Core Standard
To graph functions using data in a table	Expressions and Equations: 6.EE.9

Vocabulary

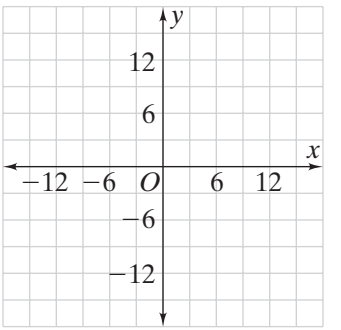
A linear function is _____

_____

Examples

1 **Graphing a Function from a Table** Graph points from the function table to determine if the function is linear.

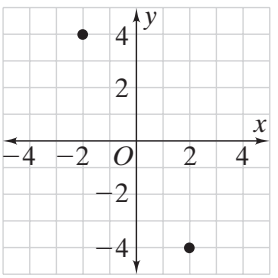
Input	Output
−9	3
−3	1
12	−4
15	5



Is the function linear? _____

2 **Graphing a Function** Make a table and graph some points of the function $y = -2x$.

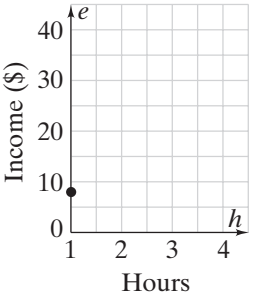
Input (x)	Output (y)	
−2	4	← $-2(-2) = 4$
−1		← $-2(-1) = \square$
0		← $-2(\square) = \square$
1		← $-2(\square) = \square$
2	−4	← $-2(2) = -4$



Name _____ Class _____ Date _____

3 Henry receives $8.00 per hour for babysitting two children. The function $e = 8h$ shows how the earnings e relate to the number of hours h that Henry babysits. Make a table and graph the function.

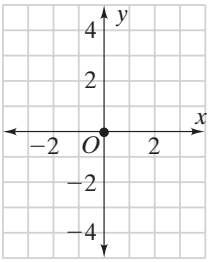
Hours	Earnings ($)
1	8
2	
3	
4	



Quick Check

1. Use a graph to determine if the function table represents a linear function.

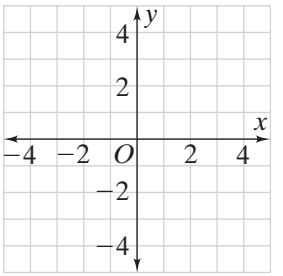
x	y
−2	3
−1	1
0	0
1	−3



Is the graph linear? _____

2. Make a table and graph some points of the function $y = x - 3$.

Input (x)	Output (y)
−2	
−1	
0	
1	
2	



3. A car is driven at a steady rate of 45 miles per hour. The function $d = 45t$ shows how time t relates to distance d. Make a table and graph the function.

Time (hours)	Distance (miles)
0	
1	
2	
3	
4	
5