

Writing Equations

Name _____ Hr _____

Write an equation in slope-intercept form for each table.

1.

x	y
0	0
1	5
2	10
3	15
4	20

2.

x	y
0	6
1	7
2	8
3	9
4	10

3.

x	y
1	3
2	-1
3	-5
4	-9
5	-13

4.

x	y
0	2
2	8
4	14
6	22
8	28

5.

x	y
3	20
6	8
9	-4
12	-16

6.

x	y
0	-3
2	1
3	3
5	7
7	11

Determine if each table below represents a linear relationship. **If yes**, write an equation relating x and y.

7.

x	2	4	6	8	10	12	14
y	0	1	2	3	4	5	6

YES or NO

Equation if YES: _____

8.

x	1	2	3	4	5	6	7
y	0	3	8	15	24	35	48

YES or NO

Equation if YES: _____

9.

x	1	4	6	7	10	12	16
y	2	-1	-3	-4	-7	-9	-13

YES or NO

Equation if YES: _____

The following tables represent the costs from two skating companies: Rollaway Skates and Wheelie's Skates and Stuff.

Rollaway Skates

Wheelie's Skates & Stuff

Number of People	Cost
0	\$0
1	\$5
2	\$10
3	\$15
4	\$20
5	\$25
6	\$30
7	\$35
8	\$40

Number of People	Cost
0	\$100
1	\$103
2	\$106
3	\$109
4	\$112
5	\$115
6	\$118
7	\$121
8	\$124

a) For each company, explain why the relationship between the number of people and cost is linear.

b) For each company, write an equation for the cost and number of people in slope-intercept form.

Rollaway Skates	Wheelie's Skates & Stuff

c) Use your equation to find how much it will cost if 50 people go skating.

Rollaway Skates	Wheelie's Skates & Stuff