

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope =  $\frac{9}{4}$ , y-intercept = -4

2) Slope =  $-\frac{7}{4}$ , y-intercept = 5

3) Slope = 2, y-intercept = 4

4) Slope =  $-\frac{1}{2}$ , y-intercept = -2

Write an equation in slope-intercept form for each table below. Show how you found the slope and y-intercept.

i.

x	y
0	0
1	2.5
2	5
3	7.5
4	10

ii.

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

iii.

x	y
0	-1.5
1	1.5
2	4.5
3	7.5
4	10.5

iv.

x	y
0	3
1	-1
2	-5
3	-9
4	-13

v.

x	y
1	1
2	5
3	9
4	13
5	17

Write a linear equation in slope-intercept form for each situation described below.

A

Anchee and Jonah earn weekly allowances for doing chores over the summer.

- Anchee's father pays her \$5 each week.
- Jonah's mother paid him \$20 at the beginning of the summer and now pays him \$3 each week.

B

At noon, the temperature is 30°F. For the next several hours, the temperature falls by an average of 3°F an hour.

- Write an equation for the temperature  $T$ ,  $n$  hours after noon.
- What is the y-intercept of the line the equation represents? What does the y-intercept tell us about this situation?
- What is the slope of the line the equation represents? What does the slope tell us about this situation?