



Write an equation of the line in slopeintercept form.







The table shows a familiar pattern from geometry.

x	1	2	3	4	5
y	4	8	12	16	20



- **1.** Write a function that relates *y* to *x*.
- **2.** What do the variables *x* and *y* represent?

3. Graph the function.

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Use the graph to write a linear function that relates y to x.



Use the table to write a linear function that relates *y* to *x*.

x	-3	-2	-1	0
У	9	7	5	3

Using a graph:



Use the table to write a linear function that relates *y* to *x*.

Using the slope-intercept method:

x	-3	-2	-1	0
У	9	7	5	3

Use the graph to write a linear function that relates *y* to *x*.



Use the table to write a linear function that relates *y* to *x*.

x	-2	0	2	4
у	-2	-1	0	1

The table shows the number y of calories you burn in x hours of jogging.

Hours Jogging, <i>x</i>	Calories Burned, y		
2	800		
4	1600		
6	2400		
8	3200		

- Write a linear function that relates
 y to x. Interpret the slope and the
 y-intercept.
- **b.** Graph the linear function.
- c. How many calories do you burn in 150 minutes?



Your earnings y (in dollars) for working x hours are represented by the function y = 6x + 12. The table shows the earnings of your friend.

Time (hours)	1	2	3	4
Earnings (\$)	9	18	27	36

- a. Who has a higher hourly wage?
- b. Write a function that relates your friend's earnings to the number of hours worked. Graph both functions. Interpret the graphs.

