**8.5 Writing a Linear Function from Two Points**

You can find the function for a line when given two ordered pairs by first finding the slope using a table. Then using the slope and either point to solve for the y-intercept (b).

**How to find the slope from a table:**

**How to write the equation:**

1.
2.
3.
4.

**Find the equation of the line that passes through the points (-6 , 6) & (-3 , 4).**

Step 1) Step 2) Step 3)

Step 4)

**Find the equation of the line that passes through the points (-1 , 2) & (1 , -4).**

**You can use this method to find the same thing from a table or a graph find the function for both of the below.**

|  |  |
| --- | --- |
| $$x$$ | $$f(x)$$ |
| 7 | 32 |
| 9 | 38 |
| 11 | 44 |
| 13 | 50 |
| 15 | 56 |

