* 1. Complete the table of values and graph the following lines on the same graph.

   

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x |  | (x,y) |  | x |  | (x,y) |  | x |  | (x,y) |
| -2 |  |  |  | -2 |  |  |  | -2 |  |  |
| -1 |  |  |  | -1 |  |  |  | -1 |  |  |
| 0 |  |  |   | 0 |  |  |  | 0 |  |  |
| 1 |  |  |  | 1 |  |  |  | 1 |  |  |
| 2 |  |  |  | 2 |  |  |  | 2 |  |  |
| 3 |  |  |  | 3 |  |  |  | 3 |  |  |



a) What is the same about each of these lines?

b) What is different about each of these lines?

* 1. Complete the table of values and graph the following lines on the same graph.

   

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x |  | (x,y) |  | x |  | (x,y) |  | x |  | (x,y) |
| -2 |  |  |  | -2 |  |  |  | -2 |  |  |
| -1 |  |  |  | -1 |  |  |  | -1 |  |  |
| 0 |  |  |  | 0 |  |  |  | 0 |  |  |
| 1 |  |  |  | 1 |  |  |  | 1 |  |  |
| 2 |  |  |  | 2 |  |  |  | 2 |  |  |
| 3 |  |  |  | 3 |  |  |  | 3 |  |  |



a) What is the same about each of these lines?

b) What is different about each of these lines?

3. The above lines are in the form  where  are numbers.

a) What does the value of  tell us about the graph of the line?

b) What does the value of tell us about the graph of the line?

1. Given the equation, how would you graph the line without using a table of values?