**Linear functions**

Functions of the form**y=mx+c**are called straight line functions. In the equation, **y=mx+c**, m **and** c are constants and have different effects on the graph of the function.

**Domain:** These are the x input values that are substituted into the function.

**Range:** These are the y output values that are substituting into the function.

Example 1: Given that $y=x$

1. Complete the table below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -2 | -1 | 0 | 1 | 2 |
| y | -2 | -1 | 0 | 1 | 2 |

1. Join the points on the Cartesian points.



1. Determine the **domain** and the **range** of the function.

 Domain: $\infty <$ X $>\infty $ or X$ \in $IR

 Range: $\infty < $y $>\infty $ or y$\in $ IR

EXERCISE 2

Given that $y=x+2$

1. Complete the table below:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| x | -2 | -1 | 0 | 1 | 2 |
| y |  |  |  |  |  |

1. Join the points on the Cartesian Plane.



1. Write down the **domain** and **range** of the function.