**Section 4.3**

**Activity 1**

Define

* One to one functions
* Onto functions
* Injective functions
* Surjective functions
* Bijective functions

**Activity 2**

Here is a function. *f*: **R**→R

*f*(*x*) = 2*x* + 3

* Is it a one-to-one function?
* Prove it ?

**Activity 3**

Here is a function. *f*: **R**→R

f(*x*) = *x*2 + 4

* Is it a one-to-one function?
* Prove it ?

**Activity 4**

Return to the function. *f*: **R**→R

*f*(*x*) = 2*x* + 3

* Is it an onto function?
* Prove it ?

**Activity 5**

Return to the function. *f*: **R**→R

f(*x*) = *x*2 + 4

* Is it an onto function?
* Prove it ?