Injective Function: One to One Function

F(x) = x^2 is injective for natural numbers, non-injective for integers

Surjective Function means every value in the co-domain is reached

Bijective functions are both surjective and injective.

⌈ x ⌉: Ceiling of x. Least integer that is not smaller than x

⌊x⌋: Floor of x. Greatest Integer that is not greater than x

INT(x): Integer part only of x – Truncates.

X MOD(Y): Divides X by Y and truncates result.

Tutorial Questions:

1)

a) N

b) Y

c) N

d) Y

e) Y

3)

a) Injective Function

b) Bijective Function

c) Injective Function

d) Function

e) Surjective Function

f) Injective Function

g) Injective Function

h) Function

i) Surjective Function

j) Injective Partial Function