

## **0.1 Functions between topologies**

We can define a function from topology to another.

$$f(X) = Y$$

### **0.1.1 Continuous functions between topologies**

If  $f(X)$  is continuous, then we have a continuous function between topologies.

### **0.1.2 Inverse functions between topologies**

If  $f(X)$  is invertible then there is an inverse mapping.