$$Injective(f) \stackrel{\triangle}{=} \forall a, b \in \text{Domain } f: (a \neq b) \Rightarrow (f[a] \neq f[b])$$

$$\mathit{Surjective}(f,\,B) \,\, \stackrel{\triangle}{=} \,\, \forall \, b \in B : \exists \, a \in \mathsf{DOMAIN} \,\, f : f[a] = b$$