· Deif: reflexive if (a, a) eR, for every element irreflexive if (a, a) & R for every element ac A symmetric if (b,a) & R whenever $(a,b) \in \mathbb{R}$, for all $a,b \in A$ antisquietric if (a,b) eR and (b,a) ∈ R for all a, b ∈ A then a=b transitive if (a, b) ER and (b,c) ER for all a, b, c e A , then (a, c) e R

Def Relation R on set A is called an equivalence relation if it is reflexive symmetric transitive