Ground set = R Lt  $a, b \in \mathbb{R}$ . aRb H [a] = [b]Claimi R 13 reflexive. Lit a e m. Sinie [a] = [a], R 13 reflexive. Clarm:, R 73 Symmetric. suppose aRb. Then La] = Lb] by properties of real numbers and = 51gn. Claim; R 13 transitive Suppose aRb and bRc. Then La) = [6] and [6] = [6] Laselesia arc

Finite = 579n is transitive un real numbers i R 13 an équivalence relation.