Study Title Date × 3.4 Equivalence Relations · Equivalence Relation o Def: Relations that are reflexive, symmetric, transtive → on Set A. ACAXA IS " ex) A= [1,2,3] on Belation R (4.9 CB. X=y) 1) Reflexive: 0 (A have (1.1), (2.2), (3.3) Dsymmettic: X (B dosen't have (2.1). (3.2)) 3) transitive: 0 => B is not eguivalence relation. o features 1) The whole is partioned thro non-empty classes With no common-parts. Subsets. · Partion and equivalence dass o Def: Set \$51. Sz. ..., Shif of a Set 5 that is not empty Satisfied the following three conditions. 1 Each elements of 5 belongs to only one Sm. Q S= S1 U S1 U ... U Sm 3 7+J, STASJ # D => Let 13 be an equivalence relation on a Set X. For each a EX, let rat = {x < x | x k a }. Then S= & Earlaex J Ts a parion of x Equivalence classes of x given by the Aelation R