Combining Relations.

let A= \$1,2,33, B= \$1,2,3,43

 $R_{1}=\frac{3}{5}(1,1),(2,12),(3,13)$

 $R_2 = \{(1,1), (1,2), (1,3)(1,4)\}$

 $R_1 \cup R_2 = \{(1,1), (2,2), (3,3), (1,2), (1,3), (1,4)\}$

RINR2 = { (1,1)}

 $R_1 - R_2 = \{(2,2), (3,3)\}$

R2-R1= { (1,2), (1,3), (1,4)}

 $R_1 \oplus R_2 = \{(1,2), (1,3), (1,4), (2,2), (3,3)\}$

 $RoS = \frac{3}{7}(1,0), (1,1), (2,1), (2,2), (3,0), (3,1)$

 $R = \{(1,1), (1,4), (2,3), (3,1), (3,4)\}$

R from \$1,2,33 to \$1,2,3,43

5= {(1,0),(2,0),(3,1),(3,2),(4,1)}

5 from \$1,2,3,43 to \$0,1,23

Inverse of Relation

 $R^{-1} = \{(1,1),(4,1),(3,2),(1,3),(4,3)\}$

Eduvalence relation: Reflexive, Symmetric & transitive. Partial order relation: Reflexive, Autisymmetric & transitive.