Types of Relations

Avelahon Ronset A au subsek of AXA

$$A = \{1,2,3\}$$

$$A = \{(1,1),(1,2),(1,3) - - - \}$$

$$R_{1} = \{(1,1),(1,3),(2,2)\}$$

$$R_{2} = \{(1,1),(1,3),(2,2)\}$$

$$R_{3} = \{(1,1),(1,3),(2,2)\}$$

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

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

$$R_{7} = \{(1,1),(2,3),(2,2),(3,3)\}$$

$$R_{8} = \{(1,1),(2,3),(2,2),(3,3)\}$$

$$R_{9} = \{(1,1),(2,3),(2,2),(3,3)\}$$

$$R_{1} = \{(1,1),(2,3),(2,2),(3,3),(2,2),(3,3)\}$$

$$R_{1} = \{(1,1),(2,3),(2,2),(3,3),(2,2),(3,3)\}$$

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$$R_{1} = \{(1,1),(2,3),(2,2),(3,3),(2,2),(3,3),(3$$

2) Symmetrie Relation.

A ocelahon R on set A is symmetric ocelahon.

If $(a,b) \in R \implies (b,a) \in R$

eg : A = {1,2,3,4}

 $R_1 = \frac{2}{3} (1,1), (1,2), (3,1), (2,1)$ \times Symmetric. $R_2 = \frac{2}{3} (1), (1,2), (3,1), (1,3), (2,1)$ \times Symmetric.

3) Transitive Relation

A grelation R on set A to Fransitive

If $(a,b) \in R \otimes (b,c) \in R \implies (a,c) \in R$.

 $A = \{1,2,3,4\}$

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

4) Equivalence Relation.

If a ocelation R on Set A 15 reflexive Symmetric & transitive then Ris said to be an equivalence relation.