Relations

in mathematical may, relate 2 or more objects together.

1/3 = connection b/m 2 elements of 2 different set based on certain rule

Inverse Relation

· denoted R - (from B to A)

$$R = \{(2,6), (2,8), (3,6), (4,8)\}.$$

$$R = \{(6,2), (8,2), (6,3), (8,4)\}.$$

Reflexitivity

· element related to itself.

eg:
$$A = \{2,3,4,6,7,9\}$$
 $\times Ry \Rightarrow \frac{x-y}{3}$, $\forall x,y \in A$.

$$\frac{2-2}{3} = 0 : R = \{(2,2), (3,3), (4,4) \dots \}$$
 $\longrightarrow \frac{2}{r/s} \text{ with it self} = \text{reflex}$

Symmetry

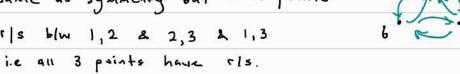
ris in both dira = symmetry

{(0,0), (0,4), (1,1), (1,3), (2,2), (3,1),

(3,3) (4,0), (4,4)}

Transitivity

· same as symmetry but > 2 points



Properties of Equality'

Properties of less than'

Equivalence Relation

Equivalence class