## TECS TUT-2

Symmetric Not antisym

Not Trunsitive (214) ER (412) ER but (212) GR

- 4) a) Not Irreflexiu as (212) ERR
  - b) Reflexive as (111) (212) (313) (414)
  - O Taraflexiu since (III) & R



<i>5</i> ) →	$(2/y) \in \mathbb{R}$ 2+y=0 Symmetric , Not anti: , Not transitive. $\{(0/0)(1/-1)(\frac{1}{2}/\frac{-1}{2})(2/-2)\}$
>	Mot Equivalence since 9t is not reflexive.  Transitive of onti symetric
->	Not Portial order since it is not reflexiu.
Ы	$z = \pm y \longrightarrow Reflexiu.$ $\Rightarrow Symmetric$ $z = -z$
	$(-212) (21-2)  \text{But } 2 \neq -2$ $50  \text{not antisymmetric.}$ $2 = \pm y  \text{So Transitiu.}$ $y = \pm z  \rightarrow  \text{Equivalence}$ $50  2 = \pm z  \rightarrow  \text{Not Portial order}$
	2-y  2-z=0 Reflexiv. $(z_{1}y) \Rightarrow (z_{2}-y) = P_{1}z - Rational$ . $(y_{1}z) \Rightarrow (y_{2}-z) = P_{1}z - P_{1}z$ hence Symmetric.  Not antisymmetric as $z \neq y$ $z_{2}-y = P$ $z_{2}-z = P$ $z_{3}-z = P$ $z_{4}-z = P$ hence Tational  So transitive. $\Rightarrow$ Equivalence  Not Partial.

Date Page

رله_	x = 2y => Not Reflexiv.
	Not symmetric
	$x = 2y \qquad (x_{1y}) \in \mathbb{R}$
	their is not (yize) so anti symetric.
	2 = 2y
	9 = 22 So $2 = 4 = 50$ not trunsitive.
	Not Partial order.



