Andy Vo

5) 1. R < relation. That is, for a, b & TR, a Rb iff a & b. why not equivolete? To show equivalence, we must show that a relation is reflexe, symmetric, and transition.

Reflexie: a Ra would now a La. Als is true, years for all real numbers,

Symith: We not show aRb = bRa, or a \le b 15 the sene as b \le a. this is take.

If a and b are different real numbers, say a = 1 and b = 2, a \le b or 1 \le 2

is true. However, b \le a or 2 \le 1 is take.

.. This relation does not slow eighbourd because It is not symmetric.

5.2. If R 15 "Xor", Son Hat it is not egypholic.

To sow egypholice, we most show that a relation is relieve, symmetre, and tronstitue.

Reflexie: pRp, p DP. pDp 15 false. "Xor" 15 "exclusive or", which

were that the relation can only be true if one proposition is true and there

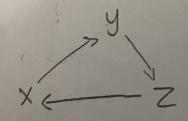
after proposition is false. For early, if p = T and q = F, then pDq = T.

However, reflectity means we have two of the some propositions.

: This relation does not show equipment because it is not reflecte.

5.3. \{ \{ 0,13, \{ 0,23, \{ 1,23\}}

5.4.



R is cyclical feely of txtytz (xhy MyRe > zkx)