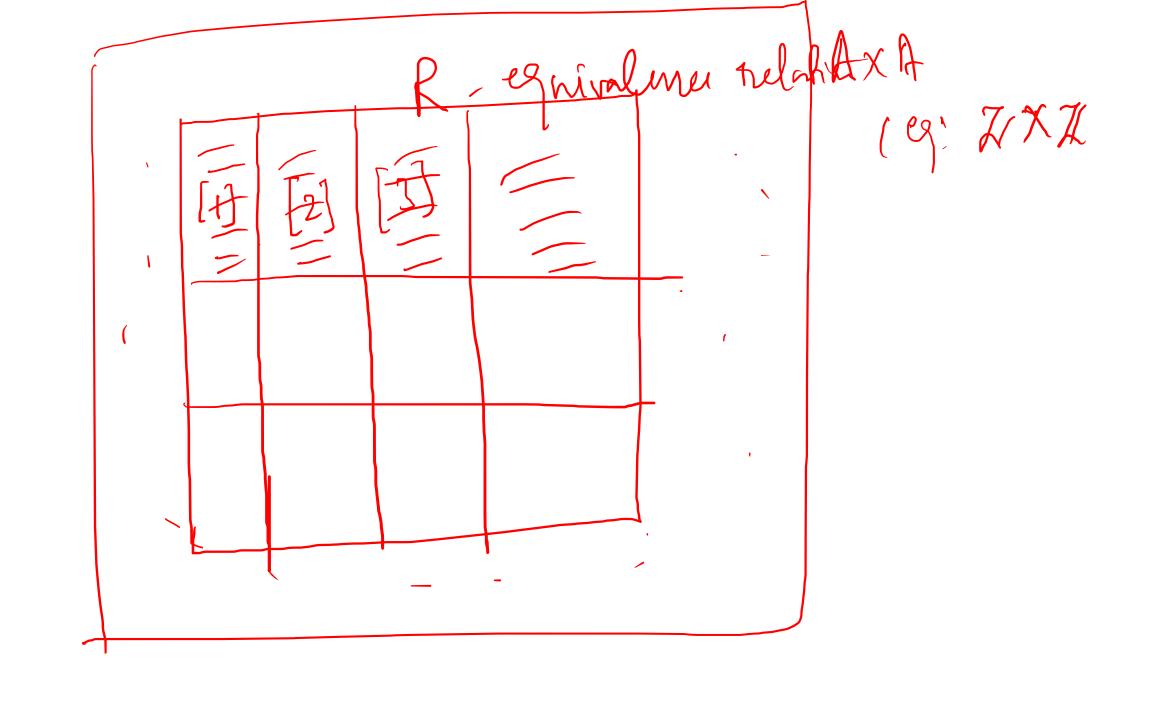
arb (=> 9 ab divisible by 5 (i) R-Reflexine. Int a E X roppore ala i, afb) should bed dinible by i a-a=0 is divisible bys =) R-is reflexive



Find the Equivalence clars of [3] [a] = Set y all & clements who are related to a.

[3] = Set 9 all entergers who are relate to 3

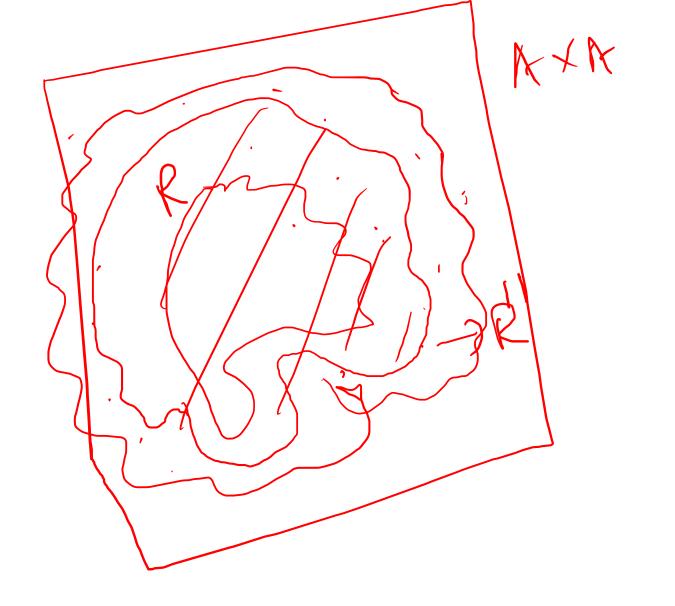
= \(\text{x} \) \(\text{x} 3-x=36-5 K for some fex[3] = { 3-51c: KE X}

(ii) Symmetry. the a, bet and aRb To provi bra (in bachould he divible by s) I know that, a-b is divible by $=) \qquad -(\alpha - 6) \qquad n \qquad a$ \rightarrow $b-\alpha$ " =) bRa =) R in a Symmetric Relation

(ill) Transitive: arb and bra

(a-b) is divisible by 5 ant a, b, c E H and To prov.

Ther, a-b is attrible by s (b-c) is divisible by 5 thun a-b+b/c is also blinisible 10 + 18 lo ys 25 10 + 15 v, a-c
arc



R- is reflexive, Symmetry and transitive) Rin equivalence relation.

 $R = \{(1,2), (2,1), (2,3), (3,4)\}$ 1st man Column and identify the No = MR = indius othere 'e' is there the Hentify the endires s haroling of Colo

Tre indicus of 3rd Col solve 1' are there. The indius of 3rd now where '1' we have 3 4 3 3 1 1 1 1 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 3 4 $m_3 = \frac{1}{2}$ $m_3 = \frac{1}{2$

The indexes of 4th col where i's are there in why. The indius of 4th row where is are there im why,

tre transstike Closure i, $p^{+}=$ $\{(1,1),(1,2),(1,3),(1,4),(2,1),$ (3,4) }

There include the stements $\{29, \times, \{2, \}, =\}$ $\{2, 2\}$ 1 - 2 , 3 /

6 0 4100000 The indices where the 2nd col has i are $\{1,2\}$ The indices where the 2nd from has i are $\{1,2\}$ Inclarde in the plante mentioned by

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