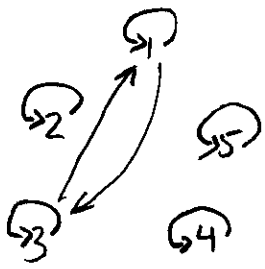
3.4a Equivalence Relations day 4

Review Exercises #1-3 all page 164 -see back of book

Exercises pg 164-165 #1-13odd

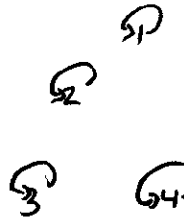
① 

$[1] = [3] = \{1,3\}$

$[2] = \{2\}$

$[4] = \{4\}$

$[5] = \{5\}$

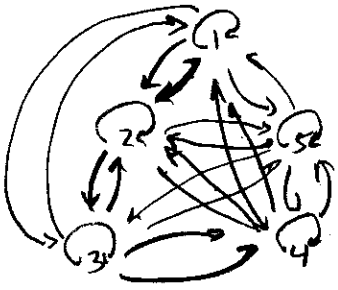
③ 

NOT Equivalence Relation

5 R 5

NOT Reflexive

⑤ Equivalence relation



$[1] = [2] = [3] = [4] = [5]$

$= \{1,2,3,4,5\}$

⑦ $\{(x,y) \mid 3 \text{ divides } x+y\}$ NOT TRANSITIVE NOT REFLEXIVE

(1,2) (2,1)
(1,5) (5,1)
(2,4) (4,2)
(3,3)

⑨ Equivalence Relation

⑪ Equivalence Relation

⑬ Equivalence Relation