CSc 245 Discrete Structures - Summer 2020

Quiz #4

Due: July 14th, 2020 by 11:59 pm (MST)

1. (10 Points) Consider the relation $R = \{(0,2),(1,3),(2,4),(3,5)\}$ on the set $A = \{0,1,2,3,4,5\}$.

   (a) Describe the relation in set builder notation.

   $\{(x,y)|$ _____ $\}$

   (b) Specify true or false for each of the following properties. If false, list the ordered pairs that would need to be added to satisfy the property.

   - R is Reflexive
   - R is Symmetric
   - R is Antisymmetric
   - R is Transitive