MAT300: Homework 5

Joseph (Shep) Bryan IV
Benjamin (Ben) Friedman
Koranis (Sandy) Tanwisuth

June 10, 2016

p.68: 4.1.10, pp.75-76: 4.2.15, pp.96-97: 2, 3c, 5, 10, 11

4.1.10

Indicate whether the following relations are reflexive, symmetric, antisymmetric, or transitive.

1. $A = \{p : p \text{ is a person in Alaska}\}$. x y if x is at least as tall as y.
   Let A be ab arbitary but fixed set as given. Let R be a relation where
   By definition of reflexive, a relation A is reflexive if every element of A is related to itself (p.68: 4.1.8). Since

4.2.15

test

2. Q2
3. Q3
5. Q5
10. Q10
11. Q11