MAT300: Homework 6

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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. $A = \{p : p$ 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