ECE335 Summer 2019 - Lecture 18 Examples

Example 1: Given the following set $A = \{1, 2, 3, 4\}$, define a binary relation as

$$R = \{(1,1), (2,1), (3,1), (4,4)\}$$

- a. Is R reflexive? Explain.
- b. Is R symmetric? Explain.
- c. Is R transitive? Explain.

Example 2: Given the following set $A = \{0, 2, 4, 6, 8, 10\}$, define a binary relation as

$$R = \{(0,6), (2,10), (4,8), (6,0), (8,4), (10,2)\}$$

- a. Is R reflexive? Explain.
- b. Is R symmetric? Explain.
- c. Is R transitive? Explain.