

page 581/1

$$R: A \rightarrow B,$$

$$A = \{0, 1, 2, 3, 4\}, B = \{0, 1, 2, 3\}$$

a) $(a, b) \in R$ iff $a = b$

$$R = \{ (0,0), (1,1), (2,2), (3,3) \}$$

b) $(a, b) \in R$ iff $a + b = 4$

$$R = \{ (1,3), (2,2), (3,1), (4,0) \}$$

c) $(a, b) \in R$ iff $a > b$

$$R = \{ (1,0), (2,0), (2,1), (3,0), (3,2), (3,1), (4,0), \\ (4,1), (4,2), (4,3) \}$$

d) $(a, b) \in R$ iff $a \mid b$

$$R = \{ (1,0), (1,1), (1,2), (1,3), (2,0), (2,2), (3,0), \\ (3,3), (4,0) \}$$