DISCRETE STRUCTURES - QUIZ #6

Marasigan, Vem Aiensi A.

2-BSCS-2

List the ordered pairs in the relation R from $A = \{0, 1, 2, 4\}$, where $(a, b) \in R$ if and only if

a.
$$\mathbf{a} = \mathbf{b}$$

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

b.
$$a + b = 4$$

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

c.
$$a > b$$

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

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

e.
$$gcd(a, b) = 1$$

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