1. 8. 2

1) a) You would use the
ISBN since they are
unique

b) This could occure if
two books with the
same title where published
on the same year.

c) You'd need two books with
the same title and number
of pages.

2)

3)

2.

1) If you have 0's on the diagonal with (i,j) has a 1, the (j,i) does not

2)

a) R on $A = \{1, 2, 3, \dots, 1000\}$

$$\frac{1000(1001)}{2} = 500500$$

c) $\{(a,b) \mid a+b = 1000\}$

999 non-zero entries

d) they are all 1