Q1 )

a) where (x y) is (A B)

- R union S = {(a b), (a d), (d a)}

- R intersection S = {(a d)}

- R difference S = {(a b), (d a)}

b) R product S = { (a b a d), (a b d a), (a d a d), (a d d a)}

R join S = {(a d a d)}

c)