

Quiz 10

Name: \_\_\_\_\_

Consider the relation  $R = \{(a, a), (b, b), (c, c), (d, d), (a, b), (b, a), (c, d), (d, c)\}$  on set  $A = \{a, b, c, d\}$

1. Draw a diagram for  $R$
2. Say whether  $R$  is reflexive. Show explicitly why it is or is not.
3. Say whether  $R$  is symmetric. Again be explicit, i.e. check every case.
4. Repeat for transitive.