1. Which of the following are equivalence relations on \{0, 1, 2, 3\}? If not, what property is missing?
   a) \{(0,0), (1,1), (2,2), (3,3)\} **yes**
   b) \{(0,0), (0,2), (2,0), (2,2), (2,3), (3,2), (3,3)\}
      Lacks (1,1) so not (R); has (0,2)&(2,3) but lacks (0,3) so not (T).
   c) \{(0,0), (1,1), (1,2), (2,1), (2,2), (3,3)\} **yes**
   d) \{(0,0), (1,1), (1,3), (2,2), (2,3), (3,1), (3,2), (3,3)\} **Has (1,3)&(3,2) but lacks (1,2) so not (T).**
   e) \{(0,0), (0,1), (0,2), (1,0), (1,1), (1,2), (2,0), (2,2), (3,3)\}
      **Has (1,2) but lacks (2,1) so not (S); has (2,0)&(0,1) but lacks (2,1) so not (T).**

[Answers pending]