Assignment 1

a)

b)

c)

d)

a)

b)

a) Symmetric

b) Symmetric, transitive

c) Reflexive, transitive

d) Antisymmetric, transitive

a)

b)

c)

d) No elements is less than both and , so there are no lower bounds.

a) countably infinite. Match n with string n 0s

b) uncountable

c) finite

d) countably infinite. 0, 6, -6, 12, -12, …