# 1

1. The power set of S, denoted P(S), is the set of all subsets of the set S.
2. A function is one-on-one if for each b ∈ B there is at most one a ∈ A with .
3. A sequence is a function from a subset of the set of integers to a set S.

# 2

P(A), P(B)=,

P P

P P

My conjecture: P P P

# 3

# 4

By definition of the ceiling function, for any we can also find

any

Thus,

# 5