

# Worksheet 9 Solution

March 18, 2020

## Question 1

- a. Every set  $S$  of size 0 has  $\frac{0(0-1)}{2} = 0$  subsets of size 2
- b. Let  $n = 0$ , and  $S$  be an arbitrary set. Assume  $S$  has size 0.

Then,  $S$  only has empty subsets by the fact that  $S$  has size 0.

Since empty subset has size 0, there are 0 subsets with size 2.

## Question 2

## Question 3