

Name: _____ Student#: _____ Date: _____

COMP 2711: Discrete Mathematical Tools for Computer Science

In Class Exercise #18

1. Use Mathematical Induction to prove that:

If $S(n) = 2S(n - 1)$ if $n \geq 1$ and $S(0) = 1$

Then, $S(n) = 2^n$ for all $n \geq 0$