

Name: _____

CompID: _____

CS 2102 - DMT1 - FALL 2019 — LUTHER TYCHONIEVICH
ADMINISTERED IN CLASS FRIDAY OCTOBER 31, 2019

QUIZ 08

Theorem 1 $\forall n \in \mathbb{N} . \sum_{x=0}^n \frac{1}{2^x} = \frac{2^{n+1} - 1}{2^n}$

PROBLEM 1 *Proof by Induction*

Prove the above theorem using induction.

Proof.

□