

Name: _____

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CS 2102 - DMT1 - SPRING 2020 — LUTHER TYCHONIEVICH
ADMINISTERED IN CLASS FRIDAY MARCH 27, 2020

QUIZ 08

PROBLEM 1 *Summation proofs*

Prove the following theorems by induction.

1.
$$\sum_{i=1}^n \frac{2}{3^i} = \frac{3^n - 1}{3^n}$$

Proof.