

In-Class Quiz 2

October 18, 2019

Name:

1. (10 points) Use mathematical induction to prove the following. For every integer $n \geq 0$,

$$3^0 + 3^1 + 3^2 + 3^3 + \cdots + 3^n = \frac{3^{n+1} - 1}{2}.$$