

Quiz 01 - Summation

Instructions:

- Your submissions must be submitted in the Quiz01 directory of your Quizzes directory in your GitHub repository.
- Cheating of any kind is prohibited and will not be tolerated.
- Violating and/or failing to follow any of the rules will result in an automatic zero (0) for the lab.

TO ACKNOWLEDGE THAT YOU HAVE READ AND UNDERSTOOD THE INSTRUCTIONS ABOVE, AT THE BEGINNING OF YOUR SUBMISSION(S), ADD A COMMENT THAT CONSISTS OF YOUR NAME AND THE DATE

Grading

| Question | Maximum Points | Points Earned |
|----------|----------------|---------------|
| 1 | 0.5 | |
| Total | 0.5 | |

Question 1

Prove that

$$\sum_{i=0}^n r^i = \frac{r^{n+1} - 1}{r - 1}$$

where r is a constant using summation tricks.

Hint: Use two summations and linearity properties