

# PHYS 105: Computational Physics I

*Spring 2015*

## In-class exercise 1.1

Write a program to perform the following tasks. If you work in C/C++, use `double` precision throughout.

1. Sum the geometric series  $G_n = \sum_{i=0}^n r^i$ , for  $n = 20$  and  $r = 0.75$ . Check your answer against the correct solution

$$G_n = \frac{1 - r^{n+1}}{1 - r}.$$