For each of the sums below, do the following:
- a) Estimate the sum by adding the first 5 terms
- b) Estimate the error from the exact sum by using an improper integral
- c) Tell an the interval in which you know the infinite sum lies:

A. $\displaystyle\sum_{n=1}^{\infty} \frac{1}{n^2}$

B. $\displaystyle\sum_{n=1}^{\infty} \frac{1}{(2n+1)^3}$