

Partial Sum

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Problem 1. The partial sum that I used is:

$$\sum_{i=1}^{10000} i^2$$

Problem 2. I believe the first and third series diverge based off of the last 15 terms in each. The second series appears to be converging to 3 as the terms seem to be slowing in growth as they get closer to 3.

Problem 3. I chose to use 10,000 terms because I wanted something that was large4 but not so large that it would cause my program not to run.