

# PartialSum Gransbury

Isabella Gransbury  
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**Problem 1.** The partial sum I created is:

$$\sum_{i=1}^n i^2 + i! / (i-1)!.$$

**Problem 2.** Converge or Diverge?

Product 1: I believe the sum will diverge because at 45 terms the product steadily increases towards positive infinity.

Product 2: I believe the sum will converge to 1.01106503. At 45 terms the last 15 converge to 1.01106503.

Product 3: I believe the sum will diverge because at 45 terms the product steadily increases towards positive infinity.