

## I.3 Partial Sums

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The formula for the third partial sum was  $a_n = (i + 1)^2 / e^i$ . The first series will diverge, while the other two series will converge to 1.01106503 and 4.41561866 respectively. I used 50 terms to come to this conclusion because it is large enough to get a good idea of the behavior of the series.