

Partial Product

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Problem 1. The series that I used is:

$$\prod_{i=1}^{1000} i$$

Problem 2. I believe the first series converges to about 0.67 while the second series converges to 0. The last series does not converge as it just keeps growing. I think the first two will converge as the last 15 numbers in the series are all the same, 0.67 and 0, respectively.