PROBLEM I.4 - PARTIAL PRODUCT
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1. My third partial product:

$$\sum_{i=1}^{n} \frac{\sin i}{\cos i}$$

2. The first series converges to 0.66666667. The second series converges to 0. The third series that I created diverges. I looked at the n value of 10,000 to make sure that the series were continuing to do what I thought they were.