

PROBLEM I.9 - PARTIAL PRODUCT 2

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1. Partial Products of the form:

$$\prod_{n=1}^{\infty} \left(1 + \frac{f(n)}{g(n)}\right)$$

2. Partial Products of the form:

$$\prod_{n=1}^{\infty} (1 + b^n)$$

These types of infinite series seem to converge when  $|b| < 1$ . They diverge when  $|b| > 1$ .