

408L CLASS PROBLEMS

APRIL 8TH, 2020

Problem 1. Does $\sum_{n=1}^{\infty} \frac{1}{e^n - n}$ converge or diverge?

Problem 2. Does $\sum_{n=1}^{\infty} \frac{e^n}{3^n + n \cos(n)}$ converge or diverge?

Problem 3. Does $\sum_{n=1}^{\infty} \frac{1}{1 + \sqrt{n^2 - 1}}$ converge or diverge?

Problem 4. Does $\sum \frac{e^n + 1}{ne^n + 1}$ converge or diverge?