

Handout F

1. Determine which of the following series converge and which diverge. Use whatever test you find simplest. You may use the results shown in one part of the problem in arguing another part of the problem.

a) $\sum_{n=2}^{\infty} \frac{\ln n}{n}$ b) $\sum_{n=2}^{\infty} \frac{\ln n}{n^2}$ c) $\sum_{n=2}^{\infty} \frac{1}{n \ln n}$ d) $\sum_{n=2}^{\infty} \frac{1}{n(\ln n)^2}$ e) $\sum_{n=2}^{\infty} \frac{n}{\ln n}$