

just checking

1. Converge or diverge? (Section 11.4 #13)

$$\sum_{n=1}^{+\infty} \frac{\tan^{-1} n}{n^{1.2}}$$

2. Converge or diverge? (Section 11.3 #13)

$$1 + \frac{1}{3} + \frac{1}{5} + \frac{1}{7} + \frac{1}{9} + \cdots$$

3. If the series converges, find its value. (Section 11.2 #39)

$$\sum_{n=1}^{+\infty} \left[e^{\frac{1}{n}} - e^{\frac{1}{n+1}} \right]$$

4. Converge or diverge?

$$\sum_{n=1}^{+\infty} \ln \left(\frac{n^2 + 1}{2n^2 + 1} \right)$$