

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points. For full credit indicate clearly how you reached your answer. All work must be legible and submitted on clean paper without ragged edges.

1. Determine whether $\sum_{n=1}^{\infty} \frac{(-1)^n}{2 + \sqrt{n}}$ converges or diverges.

2. Determine whether $\sum_{n=0}^{\infty} \frac{e^n}{1 + e^{2n}}$ converges or diverges.

3. Determine whether $\sum_{n=1}^{\infty} \frac{3}{3n - 1}$ converges or diverges.

4. Determine whether $\sum_{n=1}^{\infty} \frac{1}{2^n - 1}$ converges or diverges.

5. Determine the interval of convergence of $\frac{x}{3} + \frac{2x^2}{5} + \frac{3x^3}{7} + \frac{4x^4}{9} + \dots$.

6. Determine the interval of convergence of $\sum_{n=0}^{\infty} (-1)^n \frac{x^{2n}}{(2n)!}$.

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