

Quiz 4a Calc 2 4/30/2003

Each problem is worth 5 points. For full credit provide complete justification for your answers.

1. Determine whether the series $\sum_{n=1}^{\infty} \frac{3}{2+5^n}$ converges or diverges.

2. Determine whether the series $\sum_{n=0}^{\infty} 4 \left(\frac{-3}{2} \right)^n$ converges or diverges.

3. Determine whether the series $\sum_{n=1}^{\infty} \frac{n+3}{n^2}$ converges or diverges.