

**Quiz 2      Calculus 2      11/18/2009**

Each problem is worth 5 points. Clear and complete justification is required for full credit.

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

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