

**Quiz 3a      Calculus 2      3/4/2005**

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

1. Write the first 4 partial sums for the series  $\sum_{n=1}^{\infty} \frac{2}{n^2}$ , approximated to the nearest thousandth.

2. Evaluate  $\sum_{n=1}^{\infty} \frac{2}{3^n}$