

Quiz 10

Name: _____

1. Find the limit of the sequence $a_n = \frac{\ln n}{n^2}$. Explain your answer.
2. Find the 4th partial sum of $\sum_{n=1}^{\infty} 2^n$. Does the series converge? Explain your answer.
3. Does the series $2 + \frac{2}{3} + \frac{2}{9} + \frac{2}{27} + \frac{2}{81} + \dots$ converge? If so, find its value.