Math 222-06   QUIZ 11   2008/11/3   Name_____

- Total points: POINTS quiz points.
- Show *complete work*—that is, all the steps needed to completely justify your answer.
- *Simplify* your answers as much as possible.
- If you need extra space, work on the back and make a note on the front.

(1) Does the integral test apply to the series $\displaystyle\sum_{n=2}^{\infty} \frac{n}{(\ln n)^2}$?

(2) Does the series $\displaystyle\sum_{n=4}^{\infty} \frac{1 - \cos 2n}{n^{1.3}}$ converge or diverge?