Math 222-06   QUIZ 2   2008/9/5   **Name**_____

- Total points: 5+5+10 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) $\displaystyle \int \sin t \cos t \, dt =$

(2) $\displaystyle \int \tan t \, dt =$

(3) $\displaystyle \int_0^1 \frac{2t}{t^2 + 1} \, dt =$