

- Total points: 20 quiz points.
- Show *complete work*—that is, all the steps needed to completely justify your answer.
- *Simplify* your answers as much as possible.
- In graphs, show your  $x$  and  $y$  scales so as to make it clear where the important points are.
- If you need extra space, work on the back and make a note on the front.

(1) Find the area enclosed within  $x^2 + 4y^2 = 4$  for  $1 \leq x \leq 2$ . Show the relevant graph, set up the necessary integral, and solve.

