

**“QUIZ” for Nov. 3, 2008**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. A farmer has 3000 meters of fence, and needs to make a rectangular animal-shed, with a partition in the middle, parallel to one of the sides, using the same fencing material. What are the dimensions of the rectangle that would maximize the area?

2. Find the point on the curve  $y = \sqrt{x}$  that is closet to the point  $(1, 0)$ .