MATH 105                      QUIZ 3                      SEPTEMBER 19, 2007

NAME: ________________________________

YOUR GRADE IS BASED ON THE PROCESS AS WELL AS THE FINAL RESULT. SHOW ALL YOUR STEPS CLEARLY SO YOU WILL BE ELIGIBLE FOR THE MOST PARTIAL CREDIT. YOU MAY USE A CALCULATOR, BUT NO NOTES, BOOKS, OR OTHER STUDENTS. GOOD LUCK!

1.) (5 pts.) Suppose an object can move only along the positive x-axis. Also suppose the object is moving away from the origin at a steadily decreasing speed. Sketch the object’s

   a.) (2 pts.) position vs. time graph;

   b.) (3 pts.) velocity vs. time graph.

2.) (5 pts.) Let \( f \) be the function shown in the given graph.

   a.) (2 pts.) Between which pairs of labeled points does \( f \) have a stationary point?

   b.) (3 pts.) Between which pair of labeled points is \( f' \) increasing?