MA 113 Quiz 9 - November 14, 2013

Name: _____

1. Suppose f is a twice differentiable function such that $f''(t) = t - \cos t$, f'(0) = 2, and f(0) = -2. Find f'(t). Then find f(t).

- 2. Let $g(x) = x^2 x + 1$.
 - (a) Subdivide the interval [1,4] into three equal subintervals and compute R_3 , the value of the right-endpoint approximation to the area under the graph g on the interval [1,4].
 - (b) Sketch the graph of g and the rectangles that make up your approximation. Is the area under the graph larger or smaller than R_3 ?