Math 126 Quiz 1 Spring 2004 NAME:

1 Let $G(x) = \int_0^x f(t)dt$, where $f$ is the function whose graph is shown on the right.
(a) Evaluate $G$ at the following values: $x = 0, 2, 3, 5, 7, 8, 10$.
(b) find all critical points, all local maxima or minima, and all inflection points.
(c) Sketch the graph of $G(x)$.

2 Estimate $\int_1^3 \frac{(2 - x)^2}{.64 + (2 - x)^2} dx$ by using a Riemann sum with 5 subintervals and the midpoints as sample points. Show all your work.