QUIZ 2 Your name _____

1. (8 pts) Use the left-endpoint Riemann sum, with $n = 4$ subdivisions, to obtain an approximate value for $\displaystyle\int_0^2 \frac{3}{1+\sqrt{x}}\,dx$.

2. (6 pts) Let $g(x) = \displaystyle\int_\pi^{\ln x} \frac{\cos 2t}{t}\,dt$. Find $g'(x)$.

Problem 3 is on the back side.

3. (6 pts) The graph of a function $f(x)$ is sketched below; it consists of pieces of straight lines and a quarter of a circle. Use elementary geometry (no calculus) to compute $\int_1^7 f(x)\,dx$.