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

2. (6 pts) Let \( g(x) = \int_{\pi}^{\ln x} \frac{\cos 2t}{t} \, dt \). 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 \( \int_1^7 f(x) \, dx \).