

Quiz 14
November 20, 2002

Name _____

1. Find the definite integral for each of the following.

(a) $\int_1^2 \left(1 + \frac{1}{x} + \frac{1}{x^3}\right) dx$

(b) $\int_{10}^{40} 427.705(1.043^x) dx$

2. A corporation's revenue flow rate can be modeled by

$$r(x) = 9.907x^2 - 40.769x + 58.492$$

million dollars per year x years after the end of 1987. Evaluate $\int_0^5 r(x) dx$, and interpret your answer.