

Quiz 9

Name: Sols

Find the following:
(You must show work)

$$1) \int (x^3 - 3e^x + (.08)^x) dx$$

$$= \frac{x^4}{4} - 3e^x + \frac{(.08)^x}{\ln(.08)} + C$$

$$2) \int_0^1 (x^2 + 1) dx$$

$$= \frac{x^3}{3} + x \Big|_0^1 = \left(\frac{1^3}{3} + 1\right) - \left(\frac{0^3}{3} + 0\right)$$

$$= \frac{1}{3} + 1$$

$$= \boxed{\frac{4}{3}}$$