

QUIZ 1

Name _____

1. Find the family of antiderivatives for each of the following equations.

(a) $f(t) = t^3 - t + t^{-1}$

(b) $f(x) = 5x - \sqrt{x} + e^x$

2. Find

(a) $\int \left(x + \frac{1}{\sqrt{x}} \right) dx$

(b) $\int (y^2 - 1)^2 dy$

(c) $\int_0^{\frac{\pi}{4}} (\sin t + \cos t) dt$