



Quiz 5.2 – Derivative and Antiderivative of e^x

1. (1 pt) [alfredLibrary/AUCI/chapter5/lesson2/quiz/question1pet.pg](#)

(a) If $f(t) = e^{3t}$, then $f'(t) =$ _____.

(b) If $g(x) = 3e^{-9x}$, then $g'(x) =$ _____.

(c) If $h(u) = -7e^{4u^3}$, then $h'(u) =$ _____.

(d) If $F(x) = e^{3x^2+4x}$, then $F'(x) =$ _____.

2. (1 pt) [alfredLibrary/AUCI/chapter5/lesson2/quiz/question2pet.pg](#)

Evaluate each indefinite integral:

(a) $\int 6e^{2t} dt =$ _____.

(b) $\int 2e^{-2t} dt =$ _____.

(c) $\int -5e^{6t} dt =$ _____.

(d) $\int 6e^{-t} dt =$ _____.