

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)
$$\int 6e^{2t} dt = \underline{\hspace{1cm}}.$$

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

(a)
$$\int 6e^{2t} dt =$$
 _____.
(b) $\int 2e^{-2t} dt =$ _____.
(c) $\int -5e^{6t} dt =$ _____.
(d) $\int 6e^{-t} dt =$ _____.

$$(d) \int 6e^{-t} dt = \underline{\hspace{1cm}}$$

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