Ashlee Kalauli **MATH3B-02-S18-Ceniceros**

Assignment Homework_1 due 04/10/2018 at 10:00pm PDT

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1. (1 pt)

Find the most general antiderivative of $f(x) = -6x^2 - 3x + 9$.

Note: Any arbitrary constants used must be an upper-case "C".

$F(x) =$ _____

¡!-

Answer(s) submitted:

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(incorrect)

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2. (1 pt)

Find the most general antiderivative of $f(x) = 1x^{1/4} - 9x^{3/4}$.

Note: Any arbitrary constants used must be an upper-case "C".

$F(x) =$ _____

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Answer(s) submitted:

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(incorrect)

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3. (1 pt)

Find the most general antiderivative of $f(u) = \dfrac{-6u^4 + 4\sqrt{u}}{u^2}$.

Note: Any arbitrary constants used must be an upper-case "C".

$F(u) =$ _____

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Answer(s) submitted:

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(incorrect)

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5. (1 pt)

(a) Estimate the area under the graph of $f(x) = 9/x$ from x = 1 to x = 5 using four approximating rectangles and right endpoints.

$R_4 =$ _____

(b) Repeat part (a) using left endpoints.

$L_4 =$ _____

(c) By looking at a sketch of the graph and the rectangles, determine for each estimate whether is overestimates, underestimates, or is the exact area.

? 1. R_4

? 2. L_4

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Answer(s) submitted:

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(incorrect)