Reinhard Schultz Assignment 7.3_SOME_PROPERTY_OF_INTEGRALS due 12/31/2012 at 08:00am PST

1. (1 pt) Library/UCSB/Stewart5_5_2/Stewart5_5_2_33-/Stewart5_5_2_33.pg

Consider the graph of the function f(x):



Evaluate the following integrals by interpreting them in terms of areas:



(incorrect)

2. (1 pt) Library/UCSB/Stewart5_5_2/Stewart5_5_2_41.pg

Given that $\int_4^9 2\sqrt{x} dx = \frac{76}{3}$, what is $\int_9^4 2\sqrt{t} dt$?

Answer(s) submitted:

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(incorrect)

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3. (1 pt) Library/UCSB/Stewart5_5_2/Stewart5_5_2_47.pg

The sum

$$\int_{-2}^{2} f(x) \, dx + \int_{2}^{5} f(x) \, dx - \int_{-2}^{-1} f(x) \, dx$$

can be written as a single integral in the form

$$\int_{a}^{b} f(x) \, dx$$

Determine *a* and *b*.

b = _____

Answer(s) submitted:

a =____

(incorrect)

4. (1 pt) Library/UCSB/Stewart5_5_2/Stewart5_5_2_48.pg

If
$$\int_{1}^{5} f(x) dx = 12$$
 and $\int_{4}^{5} f(x) dx = 3.6$, find $\int_{1}^{4} f(x) dx$

Answer(s) submitted:

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(incorrect)

5. (1 pt) Library/UCSB/Stewart5_5_2/Stewart5_5_2_49.pg

If $\int_0^9 f(x) dx = -40$ and $\int_0^9 g(x) dx = 28$, find $\int_0^9 [2f(x) + 3g(x)] dx$.

Answer(s) submitted:

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(incorrect)