

MS-A0111 - Differential and Integral Calculus 1, 07.09.2020-21.10.2020

Grades

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MS-A0111 - Differential and Integral Calculus 1, 07.09.2020-21.10.2020

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Started on	Sunday, 4 June 2023, 12:01 PM
State	Finished
Completed on	Sunday, 4 June 2023, 12:02 PM
Time taken	29 secs
Marks	1.00/3.00
Grade	3.33 out of 10.00 (33.33%)

Question 1

Flag questionMark 0.00 out of 1.00Incorrect

$\int_0^a \sqrt{a^2 - x^2} dx = \int_0^{5\pi/2} a^2 \cos^2 t dt$ is equal to what?

Select one or more:

- ☒ a. $(5/4)\pi a^2$ No. You see, the length of the period is important. Check the signs of cos.
- ☐ b. $(1/4)\pi a^2$

Your answer is incorrect.

The correct answer is: $(1/4)\pi a^2$

Question 2

Flag questionMark 0.00 out of 1.00Incorrect

Integrate $\int_0^{3\pi} \frac{\cos x}{2 + \sin x} dx$ using $\sin x = t$.

Select one or more:

- ☐ a. 0
- ☒ b. $\pi/4$ No.
- ☐ c. $\sqrt{2}$

Your answer is incorrect.

The correct answer is: 0

Question 3

Flag questionMark 1.00 out of 1.00Correct

True or false? $\int \cosh^2 x dx = \frac{1}{4} \sinh 2x + \frac{x}{2} + C$

Select one or more:

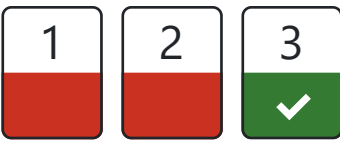
- ☒ a. True Good job!
- ☐ b. False.

Your answer is correct.

The correct answer is: True

Finish review

Quiz navigation



Finish review

◀ Lecture 6 (Activation Quiz)

Lecture 8 (Activation Quiz) ▶



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