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

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Started on	Sunday, 27 September 2020, 4:30 PM
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Completed on	Sunday, 27 September 2020, 4:30 PM
Time taken	16 secs
Marks	3.00/3.00
Grade	**10.00** out of 10.00 (**100**%)

Quiz navigation

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Finish review

Question **1**

Flag question Mark 1.00 out of 1.00 Correct

The lower integral is always strictly less than the upper integral. True of False?

Select one or more:

- [x] a. False. ✓ Correct. Did you think of a constant function? Yes, you did!
- [ ] b. True.

Your answer is correct.

The correct answer is: False.

Question **2**

Flag question Mark 1.00 out of 1.00 Correct

Let us have two distinct partitions p_1 and p_2 of the same interval $[a, b]$. If we take the union of the two $p_3 = p_1 \cup p_2$, what can be said about the norms of the partitions?

Select one or more:

- [ ] a. Absolutely nothing!
- [x] b. The norm of p_3 is the smallest. ✓ Yes, this is the idea of refinement.
- [ ] c. The norm of p_3 is equal to either one of the two.

Your answer is correct.

The correct answer is: The norm of p_3 is the smallest.

Question **3**

Flag question Mark 1.00 out of 1.00 Correct

The integral of $\int_{-1}^{1} x^k dx$, where k is an integer, is identically zero.

Select one or more:

- [x] a. No, the interval is symmetric, therefore odd/even enters the picture. ✓ Good one, that!
- [ ] b. Yes, since the interval is symmetric.
- [ ] c. There is no Riemann sum for this kind of polynomial.

Your answer is correct.

The correct answer is: No, the interval is symmetric, therefore odd/even enters the picture.

Finish review

◄ Lecture 4 (Activation Quiz)

Lecture 6 (Activation Quiz) ►