

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

Grades

Sections

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» Home Exam

» Exam (21.10.20, 16.30-20.30)

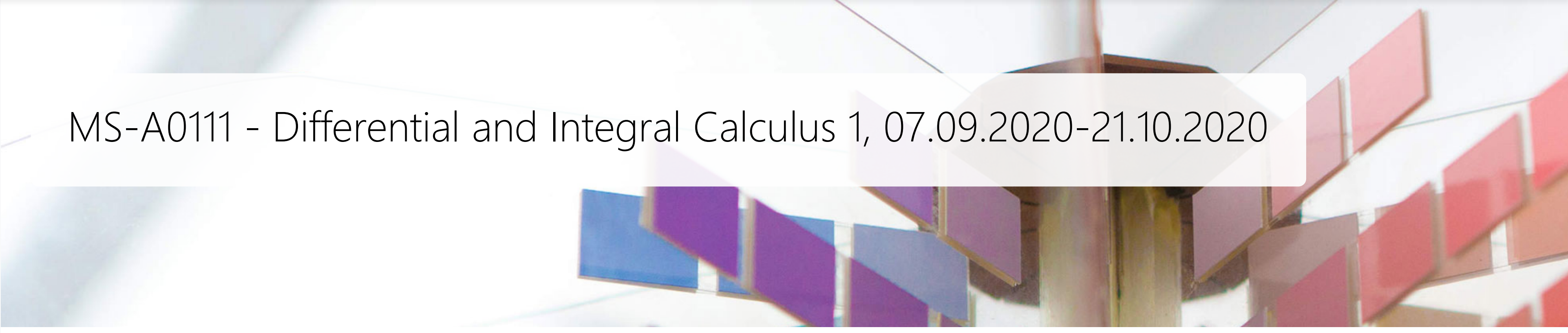
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MS-A0111 - Differential and Integral Calculus 1, 07.09.2020-21.10.2020

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Started on	Saturday, 19 September 2020, 1:42 PM
State	Finished
Completed on	Saturday, 19 September 2020, 1:46 PM
Time taken	3 mins 10 secs
Grade	3.00 out of 3.00 (100%)

Quiz navigation

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✓

✓

✓

[Finish review](#)

Question 1

Flag question

Mark 1.00 out of 1.00

Correct

Let $x_0 = 2$ and $x_{n+1} = \frac{1}{2}x_n + \frac{1}{x_n}$. Assuming that the sequence is bounded, find its limit.

Select one or more:

- ☐ a. 1
- ☒ b. $\sqrt{2}$ ✓ Brilliant!
- ☐ c. 4

Your answer is correct.

The correct answer is: $\sqrt{2}$

Question 2

Flag question

Mark 1.00 out of 1.00

Correct

Evaluate the Newton's quotient $\lim_{h \rightarrow 0} \frac{f(x+h)-f(x)}{h}$ for $f(x) = x^2 - 2x + 2$. What is the expression before taking the final limit?

Select one or more:

- ☐ a. $2x-2$
- ☒ b. $2x + h - 2$ ✓ Brilliant!
- ☐ c. $2(x + h) - 2$

Your answer is correct.

The correct answer is: $2x + h - 2$

Question 3

Flag question

Mark 1.00 out of 1.00

Correct

Find the limit of $\lim_{x \rightarrow 0} \frac{\sin x - \cos x + 1}{x}$.

Select one or more:

- ☒ a. 1 ✓ Stunning mastery of the concepts!
- ☐ b. -1
- ☐ c. 0

Your answer is correct.

The correct answer is: 1

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◀ Lecture 1 (Activation Quiz)

Lecture 3 (Activation Quiz) ▶



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