

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

Grades

Sections

» Welcome

» Materials

» Assignments

» STACK

» Homework submission

» Home Exam

» Exam (21.10.20, 16.30-20.30)

Dashboard

Site home

Calendar

Learner Metrics

Teacher Metrics

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

Dashboard / Courses / School of Science / department of... / ms-a0111 - di... / Sections / Materials / lecture 4 (ac...

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|--------------|--------------------------------------|
| Started on | Saturday, 19 September 2020, 1:39 PM |
| State | Finished |
| Completed on | Saturday, 19 September 2020, 1:39 PM |
| Time taken | 16 secs |
| Marks | 3.00/3.00 |
| Grade | 10.00 out of 10.00 (100%) |

Question 1

Flag questionMark 1.00 out of 1.00Correct

In the approximation $\sqrt{26} \approx 5.1$ we can expect the true value to be within the interval (5.099,5.1).

Select one or more:

- ☒ a. YesPerfect, indeed, the error estimate gives us 1/1000.
- ☐ b. No

Your answer is correct.

The correct answer is: Yes

Question 2

Flag questionMark 1.00 out of 1.00Correct

Given a polynomial $p_n(x)$, there exists another polynomial $T(x,a)$ of the same order but about a such that $p_n \neq T_n$.

Select one or more:

- ☐ a. Yes
- ☒ b. NoYes, Taylor polynomial is unique.

Your answer is correct.

The correct answer is: No

Question 3

Flag questionMark 1.00 out of 1.00Correct

Use the 2nd order Taylor polynomial for \sqrt{x} about $x = 25$ to approximate $\sqrt{26}$. Is the guaranteed interval for the true value narrower or wider than for the linearisation?

Select one or more:

- ☐ a. Wider
- ☒ b. NarrowYes, 2nd order is more accurate!

Your answer is correct.

The correct answer is: Narrow

Finish review

Quiz navigation

1

✓

2

✓

3

✓

Finish review

◀ Lecture 3 (Activation Quiz)

Lecture 5 (Activation Quiz) ▶



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