**Exercises for The National Holiday**

**(Monday, February 5, 2024)**

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Class: SE1917

We define: ***m*** *is the second-to-last digit of the student ID.*

***n*** *is the last digit of the student ID.*

**Q1.**

Calculus ?

Answer: ………578905787…………….(Give your answer to 4 decimal places)

**Q2.**

Using Newton’s method to find  of the function  and ?

Answer: …………1.5112………………………….(Give your answer to 4 decimal places)

**Q3.**

Calculus ?

Answer: …………0.4940………………………….(Give your answer to 4 decimal places)

**Q4.**

Using Mid-point, Left-endpoint and Right-endpoint Rule to approximate  with *ten subintervals*?

Answer: Mid-point: ………………220,6348392………….…………….(Give your answer to 9 decimal places)

Left-endpoint: ……………217,4500909……………………….(Give your answer to 9 decimal places)

Right-endpoint: ………………219,647914…………………...(Give your answer to 9 decimal places)

**Q5.**

Compute ?

Answer: …………0,09076736155…………………………. (Give your answer to 9 decimal places)

Hint: To avoid calculation errors, you should choose the lower bound of the integration as .

**Q6.**

A particle moves along a line so that its velocity at time *t* is  (measured in meters per second). Find the displacement and total distance traveled of the particle during the time  ?

Answer: …………………………………….(toward the left or right ?) (Give your answer to 4 decimal places)

**How to submit your assignment:**

You just need to fill in your answers into this Word or PDF file. Reminder: ***Fill in only the answers***. Then submit the filled-in Word or PDF file via email to *dungttm12@fpt.edu.vn* with the email subject titled “**TET Exercises**”.

**Have a good day!**