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NPTEL

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Courses » Surrogates and Approximations in Engineering Design

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Unit 2 - Pre-requisite Assignment

Course outline

How to access the portal

Pre-requisite Assignment

Quiz : Assignment 0

Week 1

Week 2

Week 3

Week 4

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Assignment 0

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2018-08-13, 23:59 IST.**

1) Given $y = 4x^3 + 3x^2 + 1$ and $x \in [-0.7, 0.7]$. Find the minimum of y **1 point**

- 2
- 1
- 0.5
- 1

No, the answer is incorrect.

Score: 0

Accepted Answers:

1

2) What is the minimum number of points required to form a **1 point**

- i) line
- ii) quadratic curve

- 2&3
- 1&3
- 2&4
- 1&2

No, the answer is incorrect.

Score: 0

Accepted Answers:

2&3

3) Using matrix form ($AX = B$) of the system of equations, find determinant of A **1 point**

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No, the answer is incorrect.

Score: 0

Accepted Answers:

-5

4) Given $y = 2x^2 + 3x + 5$. What is the gradient of y at $x = 0.5$? 1 point

 4 7 5 -1

No, the answer is incorrect.

Score: 0

Accepted Answers:

5

5) Which of the following is a numerical method, used to calculate the gradient of a function at a point? 1 point

 Forward Difference Taylor's series Simpson's 1/3rd rule both a and b

No, the answer is incorrect.

Score: 0

Accepted Answers:

Forward Difference

6) Which of the two given functions is monotonic? 1 point

i) $y = \sin(x)$ when $x \in [0, \pi]$

ii) $y = e^x$

 i ii both i and ii none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

ii

End

