

DATE:

CLASS:

ALL CENTRE

JEE ADVANCED 2019 MATHS - PAPER 2

SECTION - 1

1. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be given by $f(x) = (x-1)(x-2)(x-5)$. Define $F(x) = \int_0^x f(t) dt, x > 0$. Then which of the following options is/are correct?
- (a) F has a local minimum at $x = 1$
(b) F has a local maximum at $x = 2$
(c) $F(x) \neq 0$ for all $x \in (0, 5)$
(d) F has two local maxima and one local minimum in $(0, \infty)$

Solution:

$$f(x) = (x-1)(x-2)(x-5)$$

$$\text{Given } F(x) = \int_0^x f(t) dt$$

$$F'(x) = (x-1)(x-2)(x-5)$$



At $x = 1$ and $x = 5$, $F'(x)$ changes from $-$ to $+$

$\therefore F(x)$ has two local minima points at $x = 1$ and $x = 5$

$F(x)$ has one local maxima point at $x = 2$.

2. For $a \in \mathbb{R}$, $|a| > 1$, let $\lim_{n \rightarrow \infty} \left(\frac{1 + \sqrt[n]{2} + \dots + \sqrt[n]{n}}{n^{7/3} \left(\frac{1}{(an+1)^2} + \frac{1}{(an+2)^2} + \dots + \frac{1}{(an+n)^2} \right)} \right) = 54$. Then the possible value(s) of a

is/are:

(a) 8

(b) -9

(c) -6

(d) 7

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