

Que	tions	JEE Main Crash Course
1//.	mathongo $(1 +  \cos x ) \frac{\lambda}{2}$ , $0 < x < \frac{\pi}{2}$ mathongo	
		at $x=rac{\pi}{2},$ then $9\lambda+6\log_c\mu+\mu^6-e^{6\lambda}$ is equal to
	mathongo /// mathon $e^{\cot \frac{6x}{\cot 4x}}$ , math $\frac{\pi}{2} < x < \pi$ mathongo	///. mathongo ///. mathongo ///. mathongo ///. mathongo ///.
	(1) 11	(2) 8
	(3) $2e^4 + 8$	(4) 10
2.	If the function $f(x) = \begin{cases} \frac{\log_e \left(1 - x + x^2\right) + \log_e \left(1 + x + x^2\right)}{\sec x - \cos x}, & x \in \left(\frac{-\pi}{2}, \frac{\pi}{2}\right) - \{0\} \\ k, & x = 0 \end{cases}$	(4) 10
	(1) <sub>a</sub> 1 <sub>hongo</sub> /// mathongo /// mathongo /// mathongo	(4) 0 mathongo /// mathongo /// mathongo /// mathongo /// mathongo ///
<b>3.</b> ///.	Let $a,b \in R, b \neq 0$ . Defined a function, $f(x) = \begin{cases} a \sin \frac{\pi}{2} \left(x - 1\right), & \text{for } x \in \mathbb{R}, b \neq 0, \\ \frac{\tan 2x - \sin 2x}{b - x^3}, & \text{for } x \in \mathbb{R}, b \neq 0, \end{cases}$	If $f$ is continuous at $x = 0$ , then $10 - ab$ is equal to $0 = 0$
4.	The function $f:R o R$ defined by $f(x)=\lim_{n o\infty}rac{\cos{(2\pi x)}-x^{2n}\sin{(x-1)}}{1+x^{2n+1}-x^{2n}}$ is $G$	continuous for all $x$ in
	(1) $R = \{-1\}$ /// mathongo /// mathongo /// mathongo (3) $R = \{1\}$	(2) $R = \{-1,1\}$ /// mathongo /// mathongo /// mathongo /// mathongo /// mathongo /// mathongo
<b>5.</b> ///.	Consider the function $f(x) = \frac{P(x)}{\sin(x-2)}$ , $x \neq 2$ , and $f(x) = 7$ , $x = 2$ whe continuous at $x = 2$ , then $P(5)$ is equal to	The $P(x)$ is a polynomial such that $P''(x)$ is always a constant and $P(3)=9$ . If $f(x)$ is
6.		rval $(-2, 1)$ where the function $f(x)= [x] +\sqrt{x-[x]}$ is discontinuous, is
7.	Let $f(x) = [x^2 - x] +  -x + [x] $ , where $x \in \mathbb{R}$ and $[t]$ denotes the greates	
	(1) continuous at $x = 0$ , but not continuous at $x = 1$	(2) continuous at $x = 1$ , but not continuous at $x = 0$
	(3) continuous at $x = 0$ and $x = 1$	(4) not continuous at $x = 0$ and $x = 1$
8.	If $f:R \to R$ is a function defined by $f(x){=}[x-1]{\cos\left(\frac{2x-1}{2}\right)}\pi$ , where	$[\cdot]$ denotes the greatest integer function, then $f$ is:
	(1) discontinuous only at $x = 1$ (3) continuous only at $x = 1$ mathongo mathongo	(2) discontinuous at all integral values of $x$ except at $x = 1$ (4) continuous for every real $x_{1000}$ morphologo mathong with mathon $x_{1000}$ morphologo $x_{1000}$
9.	Let $[t]$ denote the greatest integer $\leq t$ . The number of points where the fu	unction $f\Big(x\Big)=\Big[x\Big] x^2-1 +\sin\Big(rac{\pi}{[x]+3}\Big)-\Big[x+1\Big],\ x\in\Big(-2,\ 2\Big)$ is not continuous is
	mathongo /// mathongo /// mathongo /// mathongo	
10.	Let $[t]$ denote the greatest integer $\leq t$ and $\lim_{x\to 0} x \left[\frac{4}{x}\right] = A$ . Then the function	on, $f(x) = [x^2] \sin(\pi x)$ is discontinuous, when $x$ is equal to:
	(1) $\sqrt{A+1}$	(2) $\sqrt{A+5}$
		(4) $\sqrt{A}$ hongo /// mathongo /// mathongo /// mathongo /// m
11.	If $f(x) = \begin{cases} x+a, & x \leq 0 \\  x-4 , & x > 0 \end{cases}$ and $g(x) = \begin{cases} x+1, & x < 0 \\ (x-4)^2 + b, & x \geq 0 \end{cases}$ are contin	uous on $R$ , then $(gof)(2)+(fog)(-2)$ is equal to:  (2) 10 mathongo /// mathongo // mathongo
	(1) -10 Mariongo Mariongo Mariongo Mariongo	(2) 10
	(3) 8	(4) - 8
12.	Let $f(x)=[2x^2+1]$ and $g(x)=\begin{cases} 2x-3, & x<0\\ 2x+3, & x\geq 0 \end{cases}$ , where $[t]$ is the greated discontinuous is equal to	est integer $\leq t$ . Then, in the open interval $(-1,1)$ , the number of points where fog is $\langle -1 \rangle$
13.		$x\leqslant -1$
	The number of points where the function $f(x) = \begin{cases} \left[4x^2 - 1\right] & \text{if } \\  x+1  +  x-2  & \text{if } \end{cases}$	$x\leqslant -1$ mathons mathons mathons mathons mathons mathons $x \leqslant -1 < x < 1$ , where $[t]$ denotes the greatest integer $\leqslant t$ , is discontinuous is $x\geqslant 1$
14.		$\{x, x+2[x]\}, \ 0 \le x \le 2$ , where $f$ is not continuous and $n$ be the number of points $f$
	(1) 2	(2) 11
		(4) 3 athongo ///. mathongo ///. mathongo ///. mathongo ///. m
15.	Let $f(x) = \begin{cases} max( x , x^2), &  x  \le 2 \\ 8 - 2 x , & 2 <  x  \le 4 \end{cases}$ . Let $S$ be the set of points in the	e interval $(-4, 4)$ at which $f$ is not differentiable. Then $S$
	(1) equals $\{-2, -1, 0, 1, 2\}$	(2) equals {-2, 2} mathongo //
16.	(3) is an empty set Let $a \in \mathbb{Z}$ and $[t]$ be the greatest integer $\leq t$ , then the number of points, $x \in \mathbb{Z}$	(4) equal $\{-2, -1, 1, 2\}$ where the function $f(x)=[a+13 \sin x], \ x \in (0,\pi)$ is not differentiable, is
7%	mathorigo exarminentingo mathorigo mathorigo mathorigo	mathongs "// mathongs " Stannathonge Mannage M
17. ///.	If $[t]$ denotes the greatest integer $\leq t$ , then number of points, at which the interval $(-20, 20)$ , is	e function $f(x)=4 2x+3 +9\left[x+\frac{1}{2}\right]-12[x+20]$ is not differentiable in the open mathongo



(1) Four points	(2) Two points
(3) three points	(4) one point
If $f(x) = \begin{cases} \frac{1}{ x } & ;  x  \ge 1 \\ ax^2 + b & ;  x  < 1 \end{cases}$ is differentiable at every	mathongo mat
(1) $\frac{1}{2}$ , $\frac{1}{2}$ mathongo mathongo (3) $\frac{5}{2}$ , $-\frac{3}{2}$	mathongo (2) $\frac{1}{2}$ , $\frac{3}{2}$ ngo /// mathongo /// mathongo /// mathongo ///
Let $S$ be the set of points where the function, $f(x)=\left 2\right $	$2- x-3 ig , x\in \mathrm{R},$ is not differentiable. Then $\sum_{x\in S}f(f(x))$ equal to
The number of points, at which the function $f(x)= 2x $	$+1 -3 x+2 + x^2+x-2 , x\in R$ is not differentiable, is $\frac{1}{2}$ mathons $\frac{1}{2}$
Let K be the set of all real values of $x$ where the function	on $f(x) = \sin x  -  x  + 2(x-\pi)\cos x $ is not differentiable. Then the set ${ m K}$ is equal to :
(1) $\phi$ (an empty set) mathongo (3) $\{0\}$	mathongo (2) $\{\pi\}$ mathongo (2) $\{\pi\}$ mathongo (4) $\{0,\pi\}$
Then, the number of points in $R$ where $(fog)(x)$ is NO	
(1) <sub>a</sub> 3 <sub>nongo</sub> /// mathongo /// mathongo (3) 0	mathongo (2) 1 athongo /// mathongo /// mathongo /// mathongo ///
Let $\sum_{k=1}^{10} f(a+k) = 16(2^{10}-1)$ , where the function $f(a+k) = 16(2^{10}-1)$	f satisfies $f(x+y) = f(x)f(y)$ for all natural numbers $x$ , $y$ and $f(1) = 2$ . Then the natural number 'a' is mathenage (2) 16 though (4) 2 mathenage (4) 2 mathenage (4) 2
Let $f$ be a differentiable function from $R$ to $R$ such that	t $ f(x)-f(y)  \le 2 x-y ^{3/2}$ , for all $x,y \in R$ . If $f(0)=1$ then $\int\limits_0^1 f^2(x)dx$ is equal to
(1) 0	(2) 1
(2) 9	(1) 1
(3) 2 mathongo mathongo mathongo karanga kara	(4) $\frac{1}{2}$ mathong mathong mathong mathong where $[x]$ denotes the greatest integer function. If $m$ and $n$ respectively are the number
(3) 2 mathongo mathongo mathongo karanga kara	(4) $\frac{1}{2}$ mathong mathong mathong mathong where $[x]$ denotes the greatest integer function. If $m$ and $n$ respectively are the number
(3) 2 mathongo mathongo mathongo karanga kara	, $-2 < x < 0$ where $[x]$ denotes the greatest integer function. If $m$ and $n$ respectively are the number us and not differentiable, then $m+n$ is equal to
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Let $f:(-2, 2) \to \mathbb{R}$ be defined by $f(x) = \begin{cases} x[x] \\ (x-1)[x] \end{cases}$ of points in $(-2, 2)$ at which $y =  f(x) $ is not continuou. Let $f$ and $g$ be twice differentiable functions on $R$ such $f(2) = 3$ $g(2) = 12$ Then which of the following is NOT true?  Then which of the following is NOT true?  (1) $g(-2) - f(-2) = 20$ (3) $ f'(x) - g'(x)  < 6 \Rightarrow -1 < x < 1$ mathons  Let $f: R \to R$ be a function defined by $: f(x) = \begin{cases} \max_{t \le x} x^2 \\ x^2 \\ t \le x \end{cases}$ Where $[t]$ is the greatest integer less than or equal to $t$ . If $(m, I)$ is equal to $(1)$ $(3, \frac{27}{2})$	$(4) \ \frac{1}{2}$ $,  -2 < x < 0$ $,  0 \le x < 2$ $\text{where } [x] \text{ denotes the greatest integer function. If } m \text{ and } n \text{ respectively are the number}$ $\text{us and not differentiable, then } m+n \text{ is equal to } \underline{\qquad}$ $\text{that } f''(x)=g''(x)+6xf'(1)=4g'(1)-3=9$ $(2)  \text{If } -1 < x < 2, \text{ then }  f(x)-g(x) <8$ $(4)  \text{There exists } x_0 \in \left(1,\frac{3}{2}\right) \text{ such that } f(x_0)=g(x_0)$ $\text{sc}\{t^3-3t\};  x \le 2$ $+2x-6;  2 < x < 3$ $(2-3]+9;  3 \le x \le 5$ $(2x+1;  x>5$ Let $m$ be the number of points where $f$ is not differentiable and $I=\int_{-2}^2 f(x)dx$ . Then the ordered pair
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Let $f:(-2, 2) \rightarrow \mathbb{R}$ be defined by $f(x) = \begin{cases} x[x] \\ (x-1)[x] \end{cases}$ of points in $(-2, 2)$ at which $y =  f(x) $ is not continuou. Let $f$ and $g$ be twice differentiable functions on $R$ such $f(2) = 3$ $g(2) = 12$ Then which of the following is NOT true?  (1) $g(-2) - f(-2) = 20$ (3) $ f'(x) - g'(x)  < 6 \Rightarrow -1 < x < 1$ Mathon 19 The properties of $f(x) = \begin{cases} \max_{t \le x} x^2 \\ x^2 \\ t \le x \end{cases}$ Where $[t]$ is the greatest integer less than or equal to $t$ . If $(m, I)$ is equal to $(1)$ $(3, \frac{27}{4})$ and $(4, \frac{27}{4})$ mathon 20 Let $f: [0, \infty) \rightarrow [0, 3]$ be a function defined by $f(x) = 1$	$(4) \ \frac{1}{2}$ $, \ -2 < x < 0$ $, \ 0 \le x < 2$ $\text{where } [x] \text{ denotes the greatest integer function. If } m \text{ and } n \text{ respectively are the number us and not differentiable, then } m + n \text{ is equal to } \underline{\qquad}$ $\text{that } f''(x) = g''(x) + 6xf'(1) = 4g'(1) - 3 = 9$ $(2) \ \text{If } -1 < x < 2, \text{ then }  f(x) - g(x)  < 8$ $(4) \ \text{There exists } x_0 \in \left(1, \frac{3}{2}\right) \text{ such that } f(x_0) = g(x_0)$ $\text{Re}\{t^3 - 3t\};  x \le 2$ $+ 2x - 6;  2 < x < 3$ $2x - 3  + 9;  3 \le x \le 5$ $2x + 1;  x > 5$ Let $m$ be the number of points where $f$ is not differentiable and $I = \int_{-2}^2 f(x) dx$ . Then the ordered pair $(2) \ \left(3, \frac{23}{4}\right)$ $(4) \ \left(4, \frac{23}{4}\right)$ $(4) \ \left(4, \frac{23}{4}\right)$ $(4) \ \left(4, \frac{23}{4}\right)$ Then which of the following is true?
Let $f:(-2,2) \to \mathbb{R}$ be defined by $f(x) = \begin{cases} x[x] \\ (x-1)[x] \end{cases}$ of points in $(-2,2)$ at which $y= f(x) $ is not continuous. Let $f$ and $g$ be twice differentiable functions on $R$ such $f(2)=3$ $g(2)=12$ . Then which of the following is NOT true?  (1) $g(-2)-f(-2)=20$ (3) $ f'(x)-g'(x)  < 6 \Rightarrow -1 < x < 1$ mathons and the following defined by: $f(x) = \begin{cases} \max_{t \le x} x^2 \\ x^2 \\ x \end{cases}$ Where $[t]$ is the greatest integer less than or equal to $t$ . If $(m,I)$ is equal to $(1)$ $(3,\frac{27}{4})$ (3) $(4,\frac{27}{4})$ mathons and the following is NOT true?  Let $f:R \to R$ be a function defined by $(x) = (1)$ is equal to $(1)$ $(3,\frac{27}{4})$ (3) $(4,\frac{27}{4})$ mathons and the function defined by $(x) = (1)$	$(4) \ \frac{1}{2}$ $,  -2 < x < 0$ $,  0 \le x < 2$ $\text{where } [x] \text{ denotes the greatest integer function. If } m \text{ and } n \text{ respectively are the number}$ $\text{us and not differentiable, then } m+n \text{ is equal to } \underline{\qquad}$ $\text{that } f''(x)=g''(x)+6xf'(1)=4g'(1)-3=9$ $(2) \ \text{If } -1 < x < 2, \text{ then }  f(x)-g(x) <8$ $(4) \ \text{There exists } x_0 \in \left(1,\frac{3}{2}\right) \text{ such that } f(x_0)=g(x_0)$ $\text{x}\{t^3-3t\};  x \le 2$ $+2x-6;  2 < x < 3$ $(2-3]+9;  3 \le x \le 5$ $(2x+1;  x>5$ Let $m$ be the number of points where $f$ is not differentiable and $I=\int_{-2}^2 f(x)dx$ . Then the ordered pair
Let $f:(-2,2)\to\mathbb{R}$ be defined by $f(x)=\begin{cases}x[x]\\(x-1)[x]\end{cases}$ of points in $(-2,2)$ at which $y= f(x) $ is not continuous. Let $f$ and $g$ be twice differentiable functions on $R$ such $f(2)=3$ $g(2)=12$ . Then which of the following is NOT true?  (1) $g(-2)-f(-2)=20$ (3) $ f'(x)-g'(x) <6\Rightarrow -1< x<1$ mathod the following defined by: $f(x)=\begin{cases}\max_{t\leq x}x^2\\x^2\end{bmatrix}$ . Where $[t]$ is the greatest integer less than or equal to $t$ . If $(m,I)$ is equal to $(1)$ $(3,\frac{27}{4})$ mathod the following defined by $f(x)=(1)$ $f$ is continuous everywhere but not differentiable expression $(0,\infty)$ .	$(4) \ \frac{1}{2}$ $x - 2 < x < 0$ $x - 3 < x < 2$ $x - 3 < x < 0$ $x - 3 < x < $
Let $f:(-2,2)\to\mathbb{R}$ be defined by $f(x)=\begin{cases}x[x]\\(x-1)[x]\end{cases}$ of points in $(-2,2)$ at which $y= f(x) $ is not continuous. Let $f$ and $g$ be twice differentiable functions on $R$ such $f(2)=3$ $g(2)=12$ . Then which of the following is NOT true?  (1) $g(-2)-f(-2)=20$ (3) $ f'(x)-g'(x) <6\Rightarrow -1< x<1$ mathod the following defined by: $f(x)=\begin{cases}\max_{t\leq x}x^2\\x^2\end{bmatrix}$ . Where $[t]$ is the greatest integer less than or equal to $t$ . If $(m,I)$ is equal to $(1)$ $(3,\frac{27}{4})$ mathod the following defined by $f(x)=(1)$ $f$ is continuous everywhere but not differentiable expression $(0,\infty)$ .	$(4) \ \frac{1}{2}$ $x - 2 < x < 0$ $y - 3 < x < $