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5.1 Continuity

(Previous Year Questions Solutions from 2015-2025)

McQ's:

1.

The function $f : \mathbb{R} \rightarrow \mathbb{R}$ given by $f(x) = -|x - 1|$ is

- (A) continuous as well as differentiable at $x = 1$
- (B) not continuous but differentiable at $x = 1$
- (C) continuous but not differentiable at $x = 1$
- (D) neither continuous nor differentiable at $x = 1$

2.

The value of k so that f defined by

$$f(x) = \begin{cases} x^2 \sin\left(\frac{1}{x}\right) & \text{if } x \neq 0 \\ k & \text{if } x = 0 \end{cases}$$

is continuous at $x = 0$ is

- (A) 0
- (B) $\frac{1}{2}$
- (C) 1
- (D) 2

3.

The value of λ so that the function f defined by

$$f(x) = \begin{cases} \lambda x, & \text{if } x \leq \pi \\ \cos x, & \text{if } x > \pi \end{cases}$$

is continuous at $x = \pi$ is _____ .



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4.

If the function $f(x) = \begin{cases} \frac{x^2-1}{x-1} & \text{when } x \neq 1 \\ k & \text{when } x = 1 \end{cases}$ is given to be continuous at $x = 1$, then the value of k is _____

5.

The value of k ($k < 0$) for which the function f defined as

$$f(x) = \begin{cases} \frac{1-\cos kx}{x \sin x}, & x \neq 0 \\ \frac{1}{2}, & x = 0 \end{cases}$$

is continuous at $x = 0$ is:

a) ± 1	b) -1
c) $\pm \frac{1}{2}$	d) $\frac{1}{2}$

6.

The point(s), at which the function f given by $f(x) = \begin{cases} \frac{x}{|x|}, & x < 0 \\ -1, & x \geq 0 \end{cases}$ is continuous, is/are:

a) $x \in \mathbb{R}$	b) $x = 0$
c) $x \in \mathbb{R} - \{0\}$	d) $x = -1$ and 1

7.

The value of k for which the function f , given by

$$f(x) = \begin{cases} kx + 1, & \text{if } x \leq \pi \\ \cos x, & \text{if } x > \pi \end{cases}$$

is continuous at $x = \pi$, is :

(a) $\frac{2}{\pi}$

(b) $-\frac{\pi}{2}$

(c) $-\frac{2}{\pi}$

(d) $\frac{\pi}{2}$



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2023 March:

1.

The value of k for which $f(x) = \begin{cases} 3x + 5, & x \geq 2 \\ kx^2, & x < 2 \end{cases}$ is a continuous function, is :

(a) $-\frac{11}{4}$

(b) $\frac{4}{11}$

(c) 11

(d) $\frac{11}{4}$

2.

For what value of k may the function $f(x) = \begin{cases} k(3x^2 - 5x), & x \leq 0 \\ \cos x, & x > 0 \end{cases}$

become continuous ?

(a) 0

(b) 1

(c) $-\frac{1}{2}$

(d) No value

3.

The function $f(x) = |x| - x$ is :

(a) continuous but not differentiable at $x = 0$.

(b) continuous and differentiable at $x = 0$.

(c) neither continuous nor differentiable at $x = 0$.

(d) differentiable but not continuous at $x = 0$.

4.

The function $f(x) = x|x|$ is

(A) continuous and differentiable at $x = 0$.

(B) continuous but not differentiable at $x = 0$.

(C) differentiable but not continuous at $x = 0$.

(D) neither differentiable nor continuous at $x = 0$.

5.

If $f(x) = 2|x| + 3|\sin x| + 6$, then the right hand derivative of $f(x)$ at $x = 0$ is :

(a) 6

(b) 5

(c) 3

(d) 2



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12.

The function $f(x) = |x|$ is

- (a) continuous and differentiable everywhere.
- (b) continuous and differentiable nowhere.
- (c) continuous everywhere, but differentiable everywhere except at $x = 0$.
- (d) continuous everywhere, but differentiable nowhere.

13.

The value of k for which function $f(x) = \begin{cases} x^2, & x \geq 0 \\ kx, & x < 0 \end{cases}$ is differentiable at

$x = 0$ is :

- (a) 1
- (b) 2
- (c) any real number
- (d) 0

14.

The function $f(x) = [x]$, where $[x]$ denotes the greatest integer less than or equal to x , is continuous at

- (a) $x = 1$
- (b) $x = 1.5$
- (c) $x = -2$
- (d) $x = 4$



2025 March:

1.

The function f defined by

$$f(x) = \begin{cases} x, & \text{if } x \leq 1 \\ 5, & \text{if } x > 1 \end{cases}$$

is *not* continuous at :

- (A) $x = 0$ (B) $x = 1$
(C) $x = 2$ (D) $x = 5$

2.

If $f(x) = \begin{cases} 3x - 2, & 0 < x \leq 1 \\ 2x^2 + ax, & 1 < x < 2 \end{cases}$ is continuous for $x \in (0, 2)$, then a is equal

to :

- (A) -4 (B) $-\frac{7}{2}$
(C) -2 (D) -1

3.

If $f(x) = \begin{cases} 1, & \text{if } x \leq 3 \\ ax + b, & \text{if } 3 < x < 5 \\ 7, & \text{if } 5 \leq x \end{cases}$ is continuous in \mathbb{R} , then the values of

a and b are :

- (A) $a = 3, b = -8$ (B) $a = 3, b = 8$
(C) $a = -3, b = -8$ (D) $a = -3, b = 8$

4.

If $f(x) = \begin{cases} 3ax - b, & x > 1 \\ 11, & x = 1 \\ -5ax - 2b, & x < 1 \end{cases}$

is continuous at $x = 1$, then the values of a and b are :

- (A) $a = 3, b = 5$ (B) $a = 8, b = -1$
(C) $a = 1, b = -8$ (D) $a = -3, b = 5$



5.

$$\text{If } f(x) = \begin{cases} \frac{\sin^2 ax}{x^2}, & x \neq 0 \\ 1, & x = 0 \end{cases}$$

is continuous at $x = 0$, then the value of a is :

- (A) 1 (B) -1
(C) ± 1 (D) 0

6.

$$\text{If } f(x) = \begin{cases} \frac{\log(1+ax) + \log(1-bx)}{x}, & \text{for } x \neq 0 \\ k, & \text{for } x = 0 \end{cases}$$

is continuous at $x = 0$, then the value of k is :

- (A) a (B) $a + b$
(C) $a - b$ (D) b

7.

$$\text{If } f(x) = \begin{cases} \frac{1 - \sin^3 x}{3 \cos^2 x}, & \text{for } x \neq \frac{\pi}{2} \\ k, & \text{for } x = \frac{\pi}{2} \end{cases}$$

is continuous at $x = \frac{\pi}{2}$, then the value of k is :

- (A) $\frac{3}{2}$ (B) $\frac{1}{6}$
(C) $\frac{1}{2}$ (D) 1

8.

Assertion (A) : Let $f(x) = e^x$ and $g(x) = \log x$. Then $(f + g) x = e^x + \log x$ where domain of $(f + g)$ is \mathbb{R} .

Reason (R) : $\text{Dom}(f + g) = \text{Dom}(f) \cap \text{Dom}(g)$.

9.



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Assertion (A) : $f(x) = \begin{cases} 3x - 8, & x \leq 5 \\ 2k, & x > 5 \end{cases}$

is continuous at $x = 5$ for $k = \frac{5}{2}$.

Reason (R) : For a function f to be continuous at $x = a$,

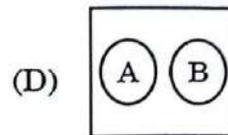
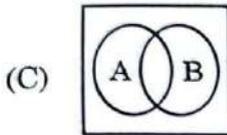
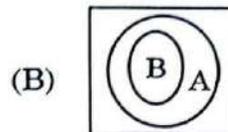
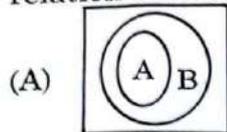
$$\lim_{x \rightarrow a^-} f(x) = \lim_{x \rightarrow a^+} f(x) = f(a).$$

Assertion (A) : $f(x) = \begin{cases} x \sin \frac{1}{x}, & x \neq 0 \\ 0, & x = 0 \end{cases}$ is continuous at $x = 0$.

Reason (R) : When $x \rightarrow 0$, $\sin \frac{1}{x}$ is a finite value between -1 and 1 .

10.

If A denotes the set of continuous functions and B denotes set of differentiable functions, then which of the following depicts the correct relation between set A and B ?





5.1 Continuity :

I. Algebraic Function :

1. 2023

Find the points at which the function $f(x) = \frac{4 + x^2}{4x - x^3}$ is discontinuous.

Sol.

$$f(x) = \frac{4 + x^2}{x(2-x)(2+x)}$$

clearly f is not continuous when $x(2-x)(2+x) = 0$

$$\Rightarrow x = 0, 2, -2$$

2.a

Find all points of discontinuity of f , where f is defined as following:

$$f(x) = \begin{cases} |x| + 3 & , x \leq -3 \\ -2x & , -3 < x < 3 \\ 6x + 2 & , x \geq 3 \end{cases}$$

Finding the Constant Value if continuous :

2.b

Determine the value of the constant 'k' so that the function $f(x) = \begin{cases} \frac{kx}{|x|} & , \text{if } x < 0 \\ 3 & , \text{if } x \geq 0 \end{cases}$ is continuous at $x = 0$.

Sol.

$$\lim_{x \rightarrow 0^-} f(x) = \lim_{x \rightarrow 0^-} \frac{kx}{|x|} = -k$$

$$k = -3$$



2.c

Find the value of a and b so that function f defined as :

$$f(x) = \begin{cases} \frac{x-2}{|x-2|} + a, & \text{if } x < 2 \\ a + b, & \text{if } x = 2 \\ \frac{x-2}{|x-2|} + b, & \text{if } x > 2 \end{cases} \text{ is a continuous function.}$$

Sol.

$$f(x) = \begin{cases} \frac{x-2}{-(x-2)} + a & ; x < 2 \\ a + b & ; x = 2 \\ \frac{x-2}{(x-2)} + b & ; x > 2 \end{cases} \Rightarrow f(x) = \begin{cases} -1 + a & ; x < 2 \\ a + b & ; x = 2 \\ 1 + b & ; x > 2 \end{cases}$$

$$\lim_{x \rightarrow 2^-} f(x) = -1 + a, \lim_{x \rightarrow 2^+} f(x) = 1 + b \text{ and } f(2) = a + b$$

as f is continuous at $x = 2 \therefore -1 + a = 1 + b = a + b$

$$\Rightarrow a = 1, b = -1$$

prepared by : **BALAJI KANCHI**

3.a

$$\text{Find the value of k, so that the function } f(x) = \begin{cases} kx^2 + 5 & \text{if } x \leq 1 \\ 2 & \text{if } x > 1 \end{cases}$$

is continuous at $x = 1$.

Sol.

L.H.L. is $k + 5$

getting $k = -3$



3.b

Find the relationship between a and b so that the function f defined by

$$f(x) = \begin{cases} ax + 1 & \text{if } x \leq 3 \\ bx + 3 & \text{if } x > 3 \end{cases}$$

is continuous at $x = 3$.

3.c

For what value of k is the following function continuous at $x = 2$?

$$f(x) = \begin{cases} 2x + 1 & ; x < 2 \\ k & ; x = 2 \\ 3x - 1 & ; x > 2 \end{cases}$$

3.d 2023

Function f is defined as

$$f(x) = \begin{cases} 2x + 2, & \text{if } x < 2 \\ k, & \text{if } x = 2 \\ 3x, & \text{if } x > 2 \end{cases}$$

Find the value of k for which the function f is continuous at $x = 2$.

Sol.

As f is continuous at $x = 2$

$$\Rightarrow \lim_{x \rightarrow 2^+} f(x) = \lim_{x \rightarrow 2^-} f(x) = f(2)$$

$$\lim_{x \rightarrow 2^+} 3x = \lim_{x \rightarrow 2^-} (2x + 2) = k$$

$$\Rightarrow k = 6$$

prepared by : **BALAJI KANCHI**



3.e 2023

The function

$$f(x) = \begin{cases} 3ax + b, & \text{if } x > 1 \\ 11, & \text{if } x = 1 \\ 5ax - 2b, & \text{if } x < 1 \end{cases}$$

is continuous at $x = 1$. Find the values of a and b .

Sol.

As f is continuous at $x=1$

$$\Rightarrow \lim_{x \rightarrow 1^+} f(x) = \lim_{x \rightarrow 1^-} f(x) = f(1)$$

$$\lim_{x \rightarrow 1^+} (3ax + b) = \lim_{x \rightarrow 1^-} (5ax - 2b) = 11$$

$$\Rightarrow 3a + b = 11 \text{ and } 5a - 2b = 11$$

solving, we get $a = 3, b = 2$

prepared by : **BALAJI KANCHI**

4.a

If the function f defined as

$$f(x) = \begin{cases} \frac{x^2 - 9}{x - 3}, & x \neq 3 \\ k, & x = 3 \end{cases}$$

is continuous at $x = 3$, find the value of k .

Answer:

$$\lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3} = 6, \therefore k = 6$$

4.b

Determine the value of ' k ' for which the following function is continuous at $x = 3$:

$$f(x) = \begin{cases} \frac{(x + 3)^2 - 36}{x - 3}, & x \neq 3 \\ k, & x = 3 \end{cases}$$

Ans.

$$k = 12.$$



4.c

Find the value of k for which the function

$$f(x) = \begin{cases} \frac{x^2 + 3x - 10}{x - 2}, & x \neq 2 \\ k, & x = 2 \end{cases}$$

is continuous at $x = 2$.

Sol.

$$\lim_{x \rightarrow 2} f(x) = f(2)$$

$$\lim_{x \rightarrow 2} \frac{(x+5)(\cancel{x-2})}{\cancel{x-2}} = k$$

$$\therefore k = 7$$

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4.d 2025

Find k so that $f(x) = \begin{cases} \frac{x^2 - 2x - 3}{x + 1}, & x \neq -1 \\ k, & x = -1 \end{cases}$ is continuous at $x = -1$.

Sol.

$$\lim_{x \rightarrow -1} \frac{x^2 - 2x - 3}{x + 1} = \lim_{x \rightarrow -1} \frac{(x-3)(x+1)}{x+1} = \lim_{x \rightarrow -1} (x-3) = -4$$

$$\text{Also, } f(-1) = k$$

as f is continuous, $k = -4$

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II. Trigonometric Functions :

1.a

If the following function $f(x)$ is continuous at $x = 0$, then write the value of k .

$$f(x) = \begin{cases} \frac{\sin \frac{3x}{2}}{x}, & x \neq 0 \\ k, & x = 0 \end{cases}$$

Sol.

$$\lim_{x \rightarrow 0} \frac{\sin \frac{3x}{2}}{x} = \lim_{x \rightarrow 0} \frac{3}{2} \cdot \frac{\sin \frac{3x}{2}}{\frac{3x}{2}} = \frac{3}{2}$$

$$\Rightarrow k = \frac{3}{2}$$

prepared by : **BALAJI KANCHI**

1.b

For what value of 'k' is the function $f(x) = \begin{cases} \frac{\sin 5x}{3x} + \cos x, & \text{if } x \neq 0 \\ k, & \text{if } x = 0 \end{cases}$ continuous at $x = 0$?

Sol.

$$\lim_{x \rightarrow 0} \left(\frac{\sin 5x}{3x} + \cos x \right) = \frac{8}{3} \Rightarrow k = \frac{8}{3}$$

2.

The value of k for which the function f given by

$$f(x) = \begin{cases} \frac{k \cos x}{\pi - 2x}, & \text{if } x \neq \frac{\pi}{2} \\ 5, & \text{if } x = \frac{\pi}{2} \end{cases} \text{ is continuous at } x = \frac{\pi}{2}, \text{ is :}$$

(a) 6

(b) 5

(c) $\frac{5}{2}$

(d) 10



3.a

Verify whether the function f defined by

$$f(x) = \begin{cases} x \sin\left(\frac{1}{x}\right), & x \neq 0 \\ 0 & , x = 0 \end{cases}$$

is continuous at $x = 0$ or not.

Sol.

$$\lim_{x \rightarrow 0} f(x) = \lim_{x \rightarrow 0} x \cdot \sin \frac{1}{x} = 0 \times \text{Finite value in } [-1,1] = 0 = f(0)$$

$\therefore f$ is a continuous function.

prepared by : **BALAJI KANCHI**

3.b

Find the value(s) of ' λ ', if the function

$$f(x) = \begin{cases} \frac{\sin^2 \lambda x}{x^2}, & \text{if } x \neq 0 \text{ is continuous at } x = 0. \\ 1 & , \text{if } x = 0 \end{cases}$$

Sol.

$$\lim_{x \rightarrow 0} f(x) = \lim_{x \rightarrow 0} \left(\frac{\sin^2 \lambda x}{x^2} \right) = \lim_{x \rightarrow 0} \left[\frac{\sin^2 \lambda x}{(\lambda x)^2} \cdot \lambda^2 \right] = \lambda^2$$

Since $f(x)$ is continuous at $x = 0$

$$\lim_{x \rightarrow 0} f(x) = f(0)$$

$$\Rightarrow \lambda^2 = 1 \Rightarrow \lambda = \pm 1$$

prepared by : **BALAJI KANCHI**



4.a

Find the value of p for which the function

$$f(x) = \begin{cases} \frac{1 - \cos 4x}{x^2}, & x \neq 0 \\ p, & x = 0 \end{cases}$$

is continuous at $x = 0$.

Sol.

$$\lim_{x \rightarrow 0} f(x) = f(0)$$

$$\lim_{x \rightarrow 0} \frac{4 \times 2 \sin^2 2x}{4x^2} = p$$

$$p = 8$$

OR

$$\text{LHL} = \lim_{x \rightarrow 0^-} \frac{2 \sin^2 2x}{x^2} = 2.4 = 8$$

$$f(0) = k$$

$$k = 8$$

4.b

Find the value of k for which the function f given as

$$f(x) = \begin{cases} \frac{1 - \cos x}{2x^2}, & \text{if } x \neq 0 \\ k, & \text{if } x = 0 \end{cases} \text{ is continuous at } x = 0.$$

$$f(x) = \begin{cases} \frac{1 - \cos kx}{x \sin x} & \text{if } x \neq 0 \\ \frac{1}{2} & \text{if } x = 0 \end{cases}$$



4.c

$$\text{If } f(x) = \begin{cases} \frac{1 - \cos 4x}{x^2}, & \text{when } x < 0 \\ a, & \text{when } x = 0 \\ \frac{\sqrt{x}}{(\sqrt{16 + \sqrt{x}}) - 4}, & \text{when } x > 0 \end{cases}$$

and f is continuous at $x = 0$, find the value of a .

4.d

Find the value of k for which the given function $f(x)$ is continuous at $x = 0$.

$$f(x) = \begin{cases} \frac{2 - 2 \cos 2x}{x^2}; & x < 0 \\ k & ; x = 0 \\ \frac{\sqrt{x}}{\sqrt{4 + \sqrt{x}} - 2}; & x > 0 \end{cases}$$

Sol.

LHL at $x = 0$

$$\lim_{h \rightarrow 0} f(0-h)$$

$$\lim_{h \rightarrow 0} \frac{2 - 2 \cos(-2h)}{(-h)^2}$$

$$\lim_{h \rightarrow 0} \frac{4 \sin^2 h}{h^2}$$

4

RHL at $x = 0$

$$\lim_{h \rightarrow 0} \frac{\sqrt{h}}{\sqrt{4 + \sqrt{h}} - 2}$$

$$\lim_{h \rightarrow 0} \frac{\sqrt{h}(\sqrt{4 + \sqrt{h}} + 2)}{\cancel{4} + \sqrt{h} - \cancel{4}}$$

$$2 + 2$$

4

$f(0)$

k

$\therefore f(x)$ is continuous at $x = 0$ if $k = 4$



5.a

Find k , if $f(x) = \begin{cases} k \sin \frac{\pi}{2}(x+1), & x \leq 0 \\ \frac{\tan x - \sin x}{x^3}, & x > 0 \end{cases}$ is continuous at $x = 0$.

5.b

Find the value of 'a' for which the function f defined as

$$f(x) = \begin{cases} a \sin \frac{\pi}{2}(x+1), & x \leq 0 \\ \frac{\tan x - \sin x}{x^3}, & x > 0 \end{cases}$$

is continuous at $x = 0$.

Sol.

$$\text{LHL} = \lim_{x \rightarrow 0^-} k \cdot \sin \frac{\pi}{2}(x+1) = k$$

$$\text{RHL} = \lim_{x \rightarrow 0^+} \frac{\tan x (1 - \cos x)}{x^3}$$

$$= \lim_{x \rightarrow 0^+} \frac{\tan x}{x} \cdot 2 \left(\frac{\sin x/2}{2x/2} \right)^2 = \frac{1}{2}$$

$$\Rightarrow k = \frac{1}{2}$$

prepared by : **BALAJI KANCHI**



6.

$$\text{If } f(x) = \begin{cases} \frac{\sin(a+1)x + 2 \sin x}{x}, & x < 0 \\ 2 & , x = 0 \\ \frac{\sqrt{1+bx} - 1}{x} & , x > 0 \end{cases}$$

is continuous at $x=0$, then find the values of a and b .

Sol.

$$\text{L.H.L} = a + 3$$

$$\text{R.H.L} = b/2$$

$f(x)$ is continuous at $x = 0$. So, $a + 3 = 2 = b/2$

$$\Rightarrow a = -1 \text{ and } b = 4$$

7.

$$\text{Find the value of } k \text{ for which the function } f(x) = \begin{cases} \frac{\sin x - \cos x}{4x - \pi}, & x \neq \frac{\pi}{4} \\ k & , x = \frac{\pi}{4} \end{cases}$$

is continuous at $x = \frac{\pi}{4}$.

Sol.

$$\lim_{x \rightarrow \pi/4} f(x) = f(\pi/4)$$

$$\lim_{x \rightarrow \pi/4} \frac{\sqrt{2} \sin(x - \pi/4)}{4(x - \pi/4)} = k$$

$$\therefore k = \frac{\sqrt{2}}{4}$$

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8.

Find the values of p and q , for which

$$f(x) = \begin{cases} \frac{1 - \sin^3 x}{3 \cos^2 x} & , \text{ if } x < \frac{\pi}{2} \\ p & , \text{ if } x = \frac{\pi}{2} \\ \frac{q(1 - \sin x)}{(\pi - 2x)^2} & , \text{ if } x > \frac{\pi}{2} \end{cases}$$

is continuous at $x = \pi/2$.

9.

Determine the values of ' a ' and ' b ' such that the following function is continuous at $x = 0$:

$$f(x) = \begin{cases} \frac{x + \sin x}{\sin(a+1)x} & , \text{ if } -\pi < x < 0 \\ 2 & , \text{ if } x = 0 \\ 2 \frac{e^{\sin bx} - 1}{bx} & , \text{ if } x > 0 \end{cases}$$



III. Exponential function:

1.

Show that the function f given by :

$$f(x) = \begin{cases} \frac{e^{1/x} - 1}{e^{1/x} + 1}, & \text{if } x \neq 0 \\ -1 & \text{if } x = 0 \end{cases}$$

is discontinuous at $x = 0$.

Sol.

$$f(x) = \begin{cases} \frac{e^x - 1}{e^x + 1} & x \neq 0 \\ -1 & x = 0 \end{cases}$$

$$\text{LHL: } \lim_{x \rightarrow 0^-} \frac{e^x - 1}{e^x + 1}$$

$$= \lim_{h \rightarrow 0} \frac{e^{-\frac{1}{h}} - 1}{e^{-\frac{1}{h}} + 1} = \frac{0 - 1}{0 + 1} = -1$$

$$\text{RHL: } \lim_{h \rightarrow 0} \frac{e^{\frac{1}{h}} - 1}{e^{\frac{1}{h}} + 1} = \lim_{h \rightarrow 0} \frac{1 - e^{-\frac{1}{h}}}{1 + e^{-\frac{1}{h}}} = 1$$

$$\text{LHL} \neq \text{RHL}$$

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$\therefore f(x)$ is discontinuous at $x = 0$

2.

Determine the values of 'a' and 'b' such that the following function is continuous at $x = 0$:

$$f(x) = \begin{cases} \frac{x + \sin x}{\sin(a+1)x}, & \text{if } -\pi < x < 0 \\ 2, & \text{if } x = 0 \\ 2 \frac{e^{\sin bx} - 1}{bx}, & \text{if } x > 0 \end{cases}$$



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