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Question 14 Discuss the continuity of the function  $f$ , where  $f$  is defined by  $f(x) = \begin{cases} 3, & \text{if } 0 \leq x \leq 1 \\ x-4, & \text{if } 1 < x < 3 \\ 5, & \text{if } 3 \leq x \leq 10 \end{cases}$  Answer The given function is  $f(x) = \begin{cases} x-4, & \text{if } 1 < x < 3 \\ 5, & \text{if } 3 \leq x \leq 10 \end{cases}$  The given function is defined at all points of the interval  $[0, 10]$  Let  $c$  be a point in the interval  $[0, 10]$  Case I If  $0 \leq c < 1$ , then  $f(c) = 3$  and  $\lim_{x \rightarrow c} f(x) = 3$ .  $\therefore \lim_{x \rightarrow c} f(x) = f(c)$  Therefore,  $f$  is continuous in the interval  $[0, 1]$  ...

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Question 1-6. to enroll in courses, follow best educators, interact with the community and track your progress.

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NCERT Solutions Class 12 Maths Chapter 5 Continuity and Differentiability Exercise 5.4 Students here will find the points of discontinuity for a certain variable when it is defined by a function. Also, they would be able to discuss the continuity of various trigonometric functions and to differentiate functions with respect to  $x$ .

**NCERT Solutions Class 12 Maths Chapter 5 Continuity and ...**

Class XII Chapter 5 - Continuity and Differentiability Maths Page 6 of 144 Therefore,  $f$  is continuous at all points  $x$ , such that  $x > 2$  Case (iii)  $c = 2$  Then, the left hand limit of  $f$  at  $x = 2$  is, The right hand limit of  $f$  at  $x = 2$  is, It is observed that the left and right hand limit of  $f$  at  $x = 2$  do not coincide.

**Class XII Chapter 5 - Continuity and Differentiability Maths**

CONTINUITY AND DIFFERENTIABILITY 87 5.1.3 Geometrical meaning of continuity (i) Function  $f$  will be continuous at  $x = c$  if there is no break in the graph of the function at the point  $(c, f(c))$ . (ii) In an interval, function is said to be continuous if there is no break in the graph of the function in the entire interval. 5.1.4 Discontinuity

**CONTINUITY AND DIFFERENTIABILITY**

CONTINUITY AND DIFFERENTIABILITY - NCERT SOLUTIONS MISCELLANEOUS EXERCISE Question 1: Using chain rule, we obtain Question 2: Question 3:  $2 \sin A \cos B + \cos A \sin B$  and the differentiation, obtain the sum formula for cosines. Differentiating both sides with respect to  $x$ , we obtain Question 22: If  $f(x) = \sin x$ , prove that  $f'(x) = \cos x$ .

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NCERT Solutions class 12 Maths Miscellaneous 20. Using the fact that  $\sin(A+B) = \sin A \cos B + \cos A \sin B$  and the differentiation, obtain the sum formula for cosines. Ans. Given: Consider  $A$  and  $B$  as function of  $x$  and differentiating both sides w.r.t.  $x$ . NCERT Solutions class 12 Maths Miscellaneous 21.

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differentiation. We illustrate certain geometrically obvious conditions through differential calculus. In the process, we will learn some fundamental theorems in this area. 5.2 Continuity We start the section with two informal examples to get a feel of continuity. Consider the function  $f(x) = \begin{cases} 1, & \text{if } 0 < x < 2 \\ 0, & \text{if } x = 2 \end{cases}$

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