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Worksheet for class 10 chemistry chapter 5 solutions class 12 ex 5 5

The relation between a function and its derivative is same as between displacement of a particle and its velocity. Solution: $x + 1, 3x$ and $4x + 2$ are in A.P. $3x - x - 1 = 4x + 2 - 3x \Rightarrow 2x - 1 = x + 2 \Rightarrow 2x - x = 2 + 1 \Rightarrow x = 3$ Hence $x = 3$ Question 3. If $x + 1, 3x$ and $4x + 2$ are in A.P., find the value of x . We find the rate of change (in Application of derivatives) one variable quantity relative to another variable. In the sixth exercise (Ex 5.6), there are four examples (examples 34, 35, 36, 37) and 11 questions. All theorems, corollaries, and definitions are significant for the exams. Hope given RD Sharma Class 10 Solutions Chapter 5 Arithmetic Progressions Ex 5.5 are helpful to complete your math homework. Learn Insta try to provide online math tutoring for you. Split 207 into three parts such that these are in A.P. and the product of the two smaller parts is 4623. Second order derivatives, mean value theorems (LMV) and Rolle's Theorem. Download NCERT Books for class 12 all subjects for 2022-23 based on latest CBSE Syllabus. In the second exercise (Ex 5.2), there are three examples (examples 21, 22, 23) and ten questions. There are four examples (examples 30, 31, 32, 33) and 18 questions in the fifth exercise (Ex 5.5). Find the four numbers in A.P., whose sum is 50 and in which the greatest number is 4 times the least. There are seven theorems, one corollary, and four definitions in chapter 5, Continuity and Differentiability of class 12th Maths. 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8 and miscellaneous exercise) English Medium and Hindi Medium. All the contents on this website are free to use. Math worksheets and visual curriculum Made with lots of love and caffeine © 2022, Teachoo. Question 11. Find all the angles. The sum of three terms of an A.P. is 21 and the product of the first and the third terms exceeds the second term by 6, find three terms. Videos related to Class 12 Mathematics chapter 5 all exercises are given below in Hindi and English Medium. All rights reserved. The main topics of chapter 5 of class 12th Maths are: Continuity Algebra of continuous functions Differentiability Derivatives of composite functions Derivatives of implicit functions Derivatives of inverse trigonometric functions Exponential and logarithmic functions Logarithmic differentiation Derivatives of functions in parametric forms Second order derivative Mean value theorem Rolle's theorem Before starting chapter 5 (Continuity and Differentiability) of 12th standard Maths, students should revise chapter 13 (Limits and Derivatives) of grade 11th Maths. [NCERT Exemplar] Solution: or, $d = \pm 2$ So, when $a = 8, d = 2$, the numbers are 2, 6, 10, 14. The fourth exercise (Ex 5.4) contains two examples (examples 28, 29) and ten questions. The last (Miscellaneous) exercise has five examples (examples 44, 45, 46, 47, 48) and 23 questions. Join the discussion forum to ask the doubts related to NIOS and CBSE Board. [CBSE 2016] Solution: Question 9. Calculus (differentiability) deals with related variables and constants. Solution: Let the four angles of a quadrilateral which are in A.P., be $a - 3d, a - d, a + d, a + 3d$ Common difference = 10° Now sum of angles of a quadrilateral = 360° $a - 3d + a - d + a + d + a + 3d = 360^\circ \Rightarrow 4a = 360^\circ \Rightarrow a = 90^\circ$ and common difference = $(a - d) - (a - 3d) = a - d - a + 3d = 2d = 10^\circ \Rightarrow d = 5^\circ$ Angles will be $a - 3d = 90^\circ - 3 \times 5^\circ = 90^\circ - 15^\circ = 75^\circ$ $a - d = 90^\circ - 5^\circ = 85^\circ$ $a + d = 90^\circ + 5^\circ = 95^\circ$ and $a + 3d = 90^\circ + 3 \times 5^\circ = 90^\circ + 15^\circ = 105^\circ$ Hence the angles of the quadrilateral will be $75^\circ, 85^\circ, 95^\circ$ and 105° Question 10. The sum of three numbers in A.P. is 12 and the sum of their cubes is 288. The third exercise (Ex 5.3) has four examples (examples 24, 25, 26, 27) and 15 questions. The angles of a quadrilateral are in A.P. whose common difference is 10° . Let f be a real function defined in the closed interval $[a, b]$ such that (i) f is continuous in the closed interval $[a, b]$ (ii) f is differentiable in the open interval (a, b) (iii) $f(a) = f(b)$ Then $f'(c) = 0$, where c lies in (a, b) . Let f be a real valued function defined on the closed interval $[a, b]$ such that (a) f is continuous on $[a, b]$, and (b) f is differentiable in (a, b) Then there exists a point c in the open interval (a, b) such that $f'(c) = \frac{f(b) - f(a)}{b - a}$ Chapter 5 of class 12th Maths has nine exercises: In the first exercise (Ex 5.1), there are 20 examples (examples 1 to 20) and 34 questions. Find the number. The derivative of $f(x)$ at $x = a$ is represented by the slope (gradient) of the tangent to the curve $y = f(x)$ at the point $P(a, f(a))$. CBSE Solutions are in the format of PDF file and Video. Show that $(a - b)^2, (a^2 + b^2)$ and $(a + b)^2$ are in A.P. Solution: $(a - b)^2, (a^2 + b^2)$ and $(a + b)^2$ are in A.P. If $2(a^2 + b^2) = (a - b)^2 + (a + b)^2 = a^2 + b^2 - 2ab + a^2 + b^2 + 2ab$ If $2(a^2 + b^2) = 2a^2 + 2b^2 = 2(a^2 + b^2)$ Which is true Hence proved. Class: 12Maths (English and Hindi Medium)Chapter 5:Continuity and DifferentiabilityNCERT Solutions for class 12 Maths chapter 5 Continuity and Differentiability all exercises with miscellaneous exercises in Hindi and English Medium free to download. Solution: Let the four terms of an A.P. be $(a - 3d), (a - d), (a + d)$ and $(a + 3d)$ Now according to the condition, Sum of these terms = $50 \Rightarrow (a - 3d) + (a - d) + (a + d) + (a + 3d) = 50 \Rightarrow a - 3d + a - d + a + d + a + 3d = 50 \Rightarrow 4a = 50 \Rightarrow a = \frac{50}{4} = \frac{25}{2}$ and greatest number = $4 \times$ least number $\Rightarrow a + 3d = 4(a - 3d) \Rightarrow a + 3d = 4a - 12d \Rightarrow 4a - a = 3d + 12d$ Question 7. NCERT Solutions and corresponding Offline Apps are also available to free download. In differential calculus we investigate the way in which 'one quantity varies when the other related quantity is made to vary'. If you have any doubts, please comment below. Find the numbers. Download UP Board Solutions for Class 12 Maths Chapter 5 in Hindi and English Medium. The angles of a triangle are in A.P. The greatest angle is twice the least. So, these solutions are useful for those also in solving their doubts. Find the angles. [NCERT Exemplar] Solution: Given that, the angles of a triangle are in A.P. Question 12. Three numbers are in A.P. If the sum of these numbers be 27 and the product 648, find the numbers. Divide 56 in four parts in A.P. such that the ratio of the product of their extremes to the product of their means is $5 : 6$. In the seventh exercise (Ex 5.7), there are four examples (examples 38, 39, 40, 41) and 17 questions. The sum of four consecutive numbers in A.P. is 32 and the ratio of the product of the first and last terms to the product of two middle terms is $7 : 15$. Question 2. Question 4. So, the 8th exercise (Ex 5.8) has the least number of problems. Solution: Let the three terms of an A.P. be $a - d, a, a + d$ Sum of three terms = $21 \Rightarrow a - d + a + a + d = 21 \Rightarrow 3a = 21 \Rightarrow a = 7$ and product of the first and 3rd = $2nd \text{ term} + 6 \Rightarrow (a - d)(a + d) = a + 6$ $a^2 - d^2 = a + 6 \Rightarrow (7)^2 - d^2 = 7 + 6 \Rightarrow 49 - d^2 = 13 \Rightarrow d^2 = 49 - 13 = 36 \Rightarrow d = (6)^2 \Rightarrow d = 6$ Terms are $7 - 6, 7, 7 + 6 \Rightarrow 1, 7, 13$ Question 5. NCERT Solutions for class 12 Maths chapter 5 Continuity and Differentiability all exercises (ex. The 8th exercise (Ex 5.8) has two examples (examples 42, 43) and 6 questions. [NCERT Exemplar] Solution: Let the three parts of the number 207 are $(a - d), a$ and $(a + d)$, which are in A.P. Now, by given condition, \Rightarrow Sum of these parts = $207 \Rightarrow a - d + a + a + d = 207 \Rightarrow 3a = 207 \Rightarrow a = 69$ Given that, product of the two smaller parts = $4623 \Rightarrow (a - d) = 4623 \Rightarrow 69(69 - d) = 4623 \Rightarrow 69 - d = 67 \Rightarrow d = 69 - 67 = 2$ So, first part = $a - d = 69 - 2 = 67$, Second part = $a = 69$ and third part = $a + d = 69 + 2 = 71$ Hence, required three parts are 67, 69, 71. Solution: Let the three numbers of an A.P. be $a - d, a, a + d$ According to the conditions, Sum of these numbers = 27 $a - d + a + a + d = 27 \Rightarrow 3a = 27$ Question 6. UP Board Students also using the same NCERT textbooks as CBSE Students. Solution: Question 8. Chapter 13 of class 11th Maths works as a base for chapter 5 of class 12th Maths. Class 12 Maths Exercise 5.1 Question 1, 2 Solution in EnglishClass 12 Maths Exercise 5.1 Question 1, 2 Solution in Hindi 12th Maths Exercise 5.1 Solutions all Videos Class 12 Maths Exercise 5.2 Question 1, 2, 3 Solution in EnglishClass 12 Maths Exercise 5.2 Question 1, 2, 3 Solution in Hindi 12th Maths Exercise 5.2 Solutions all Videos Class 12 Maths Exercise 5.3 Question 1, 2, 3 Solution in EnglishClass 12 Maths Exercise 5.3 Question 1, 2, 3 Solution in Hindi 12th Maths Exercise 5.3 Solutions all Videos The main points of the chapter are continuous functions, algebra of continuous functions, differentiation and continuity, chain rule, rules for derivative of inverse functions, derivative of implicit function, parametric and logarithmic functions. All the NCERT sols are updated for academic session 2022-23 for all boards who are following NCERT Books for their course.

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