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Name _____

AP Calculus Second Semester Final BC Calculus

Multiple-Choice
Among the choices that best complete the statement or answer the question, choose the one that is **best**.

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- 1) Write the first three terms of the MacLaurin series for $\frac{3x^3}{1+3x^2}$.

 - $3x^3 + 9x^5 + 27x^7$
 - $-3x^3 - 9x^5 - 27x^7$
 - $-3x^3 + 9x^5 - 27x^7$
 - $3x^3 + 9x^5 + 27x^7$

2) Find the exact value of $\sum_{n=0}^{\infty} \frac{4}{(n+4)(n+5)}$.

 - 3
 - $\frac{4}{3}$
 - $\frac{2}{3}$
 - $\frac{11}{3}$

3) Which of the following can be used to find an approximation for π^2 , using the 2nd order MacLaurin series for π^2 ?

 - $1 + 3 + \frac{9}{4} + \frac{27}{16}$
 - $1 + 3 + \frac{9}{4} + \frac{27}{8}$
 - $4 + \frac{9}{4} + \frac{27}{16} + \frac{81}{64}$
 - $3 + \frac{9}{4} + \frac{27}{8} + \frac{81}{16}$

4) Which of the following series converge?

 - $\sum_{n=2}^{\infty} \frac{x^n}{n}$
 - $\sum_{n=1}^{\infty} \frac{\ln n}{n}$
 - $\sum_{n=1}^{\infty} \left(\frac{1}{n!}\right)^n$
 - I only
 - II & III
 - none of the three
 - all three

5) Which of the following series converge absolutely?

 - $\sum_{n=1}^{\infty} (-1)^n \frac{n+1}{n}$
 - $\sum_{n=1}^{\infty} (-1)^n \frac{e^n}{n}$
 - $\sum_{n=1}^{\infty} \frac{(-1)^{n+1} n^3}{n+1}$
 - none of the three
 - II only
 - II & III
 - all three

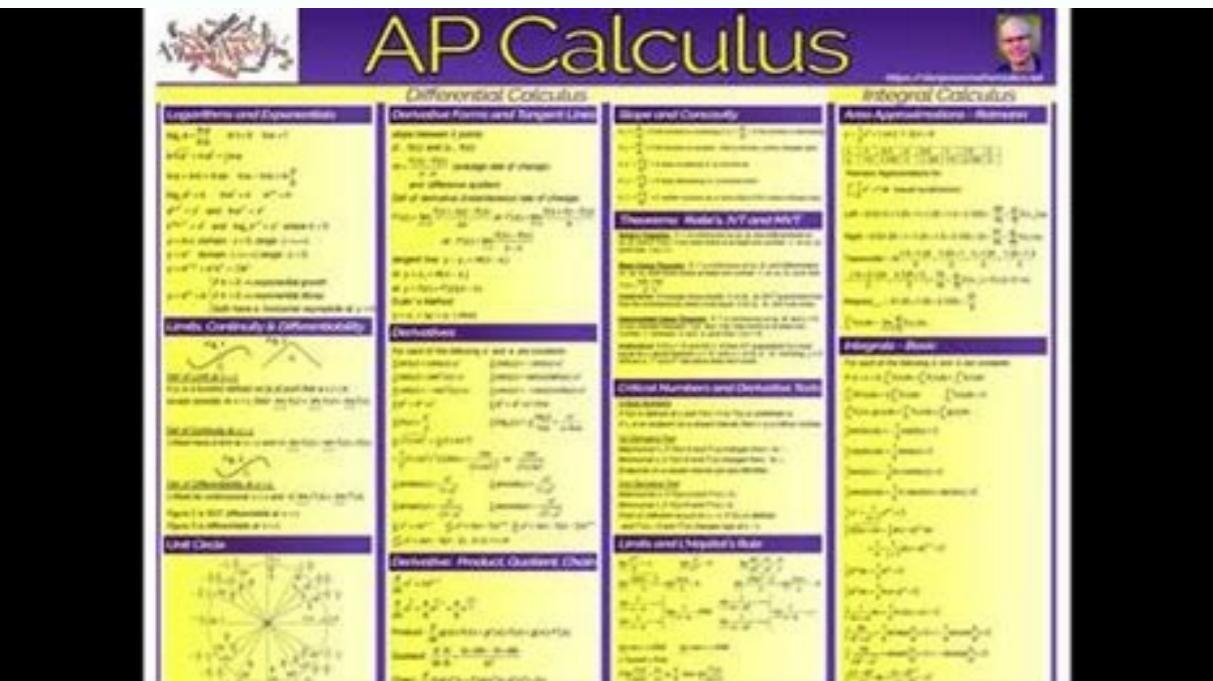
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typed by Scott Kimball, Constant Christian High School
updated August 13, 2009

AP CALCULUS
Stuff you MUST know Cold

* means topic only on BC

Curve Sketching and analysis $y = f(x)$ must be continuous at each: critical point: $\frac{dy}{dx} = 0$ or undefined and look out for endpoints local minimum: $\frac{dy}{dx}$ goes $(+, +, +)$, $(-, -, -)$ or $\frac{dy}{dx} > 0$ local maximum: $\frac{dy}{dx}$ goes $(-, -, -)$, $(+, +, +)$ or $\frac{dy}{dx} < 0$ point of inflection: concavity changes $\frac{d^2y}{dx^2}$ goes from $(+, +, +)$, $(-, -, -)$, $(+, +, +)$, or $(-, -, -)$	Differentiation Rules Chain Rule $\frac{d}{dx}[f(g(x))] = f'(g(x))\frac{du}{dx}$ OR $\frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$ $\int_a^x f'(t)dt = \frac{1}{2}\pi(x) + f(x_0) + \dots + f(x_n) + f(x_n)$ Simpson's Rule $\int_a^x f(x)dx \approx$ $\Delta x[f(x_0) + 4f(x_1) + 2f(x_2) + \dots +$ $2f(x_{n-2}) + 4f(x_{n-1}) + f(x_n)]$	Approx. Methods for Integration Trapezoidal Rule $\int_a^x f(x)dx \approx$ $\Delta x[f(x_0) + 2f(x_1) + \dots +$ $2f(x_{n-1}) + f(x_n)]$
Basic Derivatives $\frac{d}{dx}(x^n) = nx^{n-1}$ $\frac{d}{dx}(\sin x) = \cos x$ $\frac{d}{dx}(\cos x) = -\sin x$ $\frac{d}{dx}(\tan x) = \sec^2 x$ $\frac{d}{dx}(\cot x) = -\operatorname{csc}^2 x$ $\frac{d}{dx}(\sec x) = \sec x \tan x$ $\frac{d}{dx}(\csc x) = -\csc x \cot x$ $\frac{d}{dx}(\ln x) = \frac{1}{x}$ $\frac{d}{dx}(e^x) = e^x$ $\frac{d}{dx}(a^x) = a^x \ln a$ where a is a function of x , and a is a constant.	"PLUS A CONSTANT" The Fundamental Theorem of Calculus $\int_a^x f(t)dt = F(b) - F(a)$ where $F'(x) = f(x)$	Theorem of the Mean Value I.e. AVERAGE VALUE If the function $f(x)$ is continuous on $[a, b]$ and the first derivative exists on the interval (a, b) , then there exists a number $x = c$ on (a, b) such that $f'(c) = \frac{\int_a^b f(x)dx}{(b-a)}$ This value $f(c)$ is the "average value" of the function on the interval $[a, b]$.
More Derivatives $\frac{d}{dx}(\sin^{-1} x) = \frac{1}{\sqrt{1-x^2}} \frac{du}{dx}$ $\frac{d}{dx}(\cos^{-1} x) = \frac{-1}{\sqrt{1-x^2}} \frac{du}{dx}$ $\frac{d}{dx}(\tan^{-1} x) = \frac{1}{1+x^2} \frac{du}{dx}$ $\frac{d}{dx}(\cot^{-1} x) = \frac{-1}{1+x^2} \frac{du}{dx}$ $\frac{d}{dx}(\sec^{-1} x) = \frac{1}{ x \sqrt{x^2-1}} \frac{du}{dx}$ $\frac{d}{dx}(\csc^{-1} x) = \frac{-1}{ x \sqrt{x^2-1}} \frac{du}{dx}$ $\frac{d}{dx}(\operatorname{arctan} x) = \frac{1}{1+x^2} \frac{du}{dx}$ $\frac{d}{dx}(\log_e x) = \frac{1}{x} \frac{du}{dx}$	Intermediate Value Theorem If the function $f(x)$ is continuous on $[a, b]$, and y is a number between $f(a)$ and $f(b)$, then there exists at least one number $x = c$ in the open interval (a, b) such that $f(c) = y$.	Solids of Revolution and friends Disk Method $V = \pi \int_a^b [R(x)]^2 dx$ Washer Method $V = \pi \int_a^b [R(x)]^2 - [r(x)]^2 dx$ General volume equation (not rotated) $V = \int_a^b A(x) dx$ Arc Length $L = \int_a^b \sqrt{1+(f'(x))^2} dx$ $= \int_a^b \sqrt{[x'(t)]^2 + [y'(t)]^2} dt$
Mean Value Theorem If the function $f(x)$ is continuous on $[a, b]$, AND the first derivative exists on the interval (a, b) , then there is at least one number $x = c$ in (a, b) such that $f'(c) = \frac{f(b)-f(a)}{b-a}$	Rolle's Theorem If the function $f(x)$ is continuous on $[a, b]$, AND the first derivative exists on the interval (a, b) , AND $f(a) = f(b)$, then there is at least one number $x = c$ in (a, b) such that $f'(c) = 0$.	Distance, Velocity, and Acceleration velocity = $\frac{dx}{dt}$ (position) acceleration = $\frac{d^2x}{dt^2}$ (velocity) Velocity vector = $\langle \frac{dx}{dt}, \frac{dy}{dt}, \frac{dz}{dt} \rangle$ speed = $\ v\ = \sqrt{(x')^2 + (y')^2 + (z')^2}$ displacement = $\int_a^b v(t) dt$ distance = $\int_a^b \sqrt{(x')^2 + (y')^2 + (z')^2} dt$ Average velocity = $= \frac{\text{final position} - \text{initial position}}{\text{total time}}$ $= \frac{\Delta x}{\Delta t}$

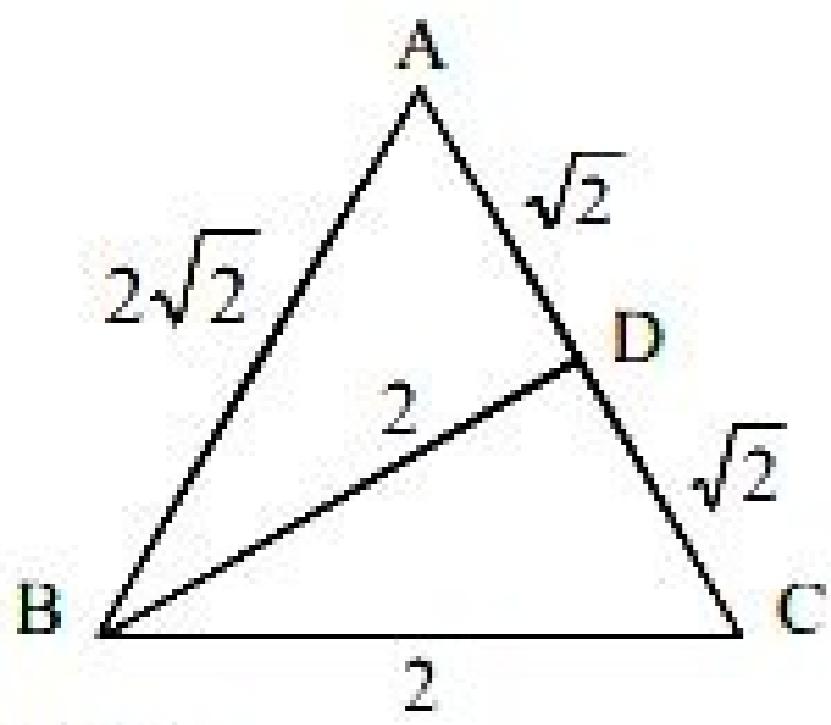


LARSON HOSTETLER EDWARDS

CALCULUS OF A SINGLE VARIABLE

SEVENTH EDITION





We know

$$AB^2 + BC^2 = 2(CD^2 + BD^2)$$

$$AB^2 + 4 = 2\left(\frac{AB^2}{4} + 4\right)$$

$$AB^2 + 4 = \frac{AB^2}{2} + 8$$

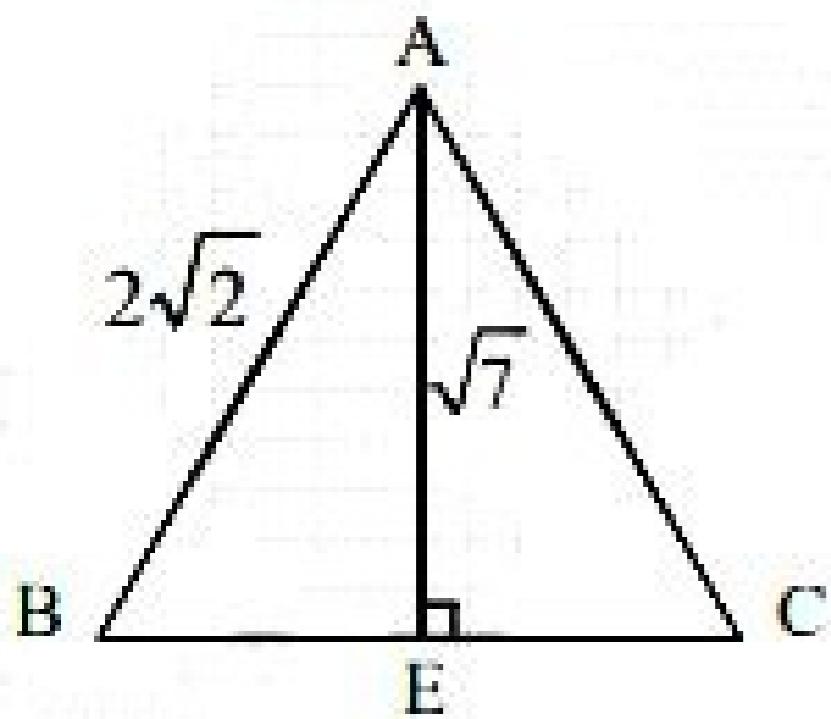
$$\frac{AB^2}{2} = 4$$

$$AB^2 = 8$$

$$AB = 2\sqrt{2}$$

Now

$$\text{Area} = \frac{1}{2} \times 2 \times \sqrt{7} = \sqrt{7} \text{ square unit.}$$



It also helped me to develop a wide foundation on which I was building during my studies at the University of Aberdeen, where I continued my studies of mathematics later on. Calculus is a důležitým a nezbytným nástrojem nejen pro matematiky. Jana Kalová, PhD., instruktorka CTM Online kurzu Calculus is an important and essential tool not just for mathematics. The courses feature a multi-representational approach to calculus, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Student se tak seznámi s tématy diferenciální rovnice, nekončné fady a jejich konvergence, nevlasiční integrál nebo polární souřadnice. Students will be introduced to the AP exam concept and they will practice relevant types of questions. Begin studying for the AP® Calculus AB or BC test by examining limits and continuity. Begin with Riemann sum approximations and end with integrating various functions with intentional techniques. Learn to set up and solve separable differential equations. These functions include linear, polynomial, rational, exponential, logarithmic, trigonometric, inverse trigonometric and piecewise-defined functions. The AP Calculus BC course is also a preparation for an AP exam. Calculus is therefore truly the foundation for developing other, not only mathematical disciplines. Calculus je tak skutečně základním stavebním kamenem pro výbudovali dalších, nejen matematických disciplín. Study materials (e-books, Discovery Education, etc. Finally, apply reasoning skills to justify solutions for optimization problems. Explore the relationship between integration and differentiation as summarized by the Fundamental Theorem of Calculus. Byla mojí instruktorkou - pomáhala mi pochopit, co jsem nepobíral, pomáhala mi pravidelně na kurzech pracovat a často mi i psala různé zajímavosti navíc, díky čemuž jsem poznal, že skvělý, milý a nájomocný matematikou jsou všechno po svém. Během studia tétoho kurzu jsem začal mit matematiku skutečně rád. Explore slope fields to understand the infinite general solutions to a differential equation. Bez porozumění funkcii a jejich vlastnostem, diferenciálnímu a integrálnímu počtu se jen těžko studuje také fyzika, některé části chemie, ekonomie, ale také třeba biologie. AP Calculus AB and AP Calculus BC focus on students' understanding of calculus concepts and provide experience with methods and applications. V našem kurzu prodeleme studenta světem funkcií a jejich vlastností, limitami, derivacemi i jejich aplikacemi. Studenti, who take AP Calculus BC should have basic familiarity with sequences and series, as well as some exposure to parametric and polar equations. AP Calculus BC is designed to be the equivalent to both first and second semester college calculus courses. Během svého středoškolského studia jsem měl přístup k mnoha zdrojům, vzděláni - absolvoval jsem různé stáže, psal SOČku, učil se pečlivě do některých předmětů - a všechny byly přínosné, ale CTM Online kurzy rozhodně nejpřínosnější! Doporučuji všechny kdykoliv! --- Thanks to the CTM Online programme, I had the opportunity to study online Maths courses, made by the CTY Johns Hopkins University, while I was still at the Bishop Grammar School in Žďár nad Sázavou. Students should also know how the sine and cosine functions are defined from the unit circle and know the values of the trigonometric functions at the numbers 0, π/6, π/4, π/3, π/2, and their multiples. Learning to recognize when functions are embedded in other functions is critical for all future units. Connect previous learnings about rates of change to scenarios in the real world, including motion and related rates. V kurzu jsou obsažena téma, která se běžně nevyučují na našich středních školach. Make sure to include this essential section in your AP® Calculus AB practice! Apply the chain rule to find derivatives of composite functions and extend that understanding to the differentiation of implicit and inverse functions. Students will therefore encounter topics such as differential equations, infinite series and their convergence, improper integrals or polar coordinates... for FLVS Global courses are INCLUDED in the price of the course. Studenti se seznámi s konceptem AP exam a nacvičí si typové úlohy. Hai there....! Ms. Malathi Ramachandran hold more than Fifteen years of total experience in handling curricula across the globe includes US, Canada, France, Spain, Sweden, Indonesia, Saudi Arabia, Thailand, UAE, Oman, UK, West Africa (Accrals), Singapore, Malaysia, China, Hong Kong, Qatar, Bahrain, Russia, Australia, New Zealand, Netherlands.... Kurz AP Calculus BC je přípravou na AP Exam. Through the use of big ideas of calculus (e.g., modeling change, approximation and limits, and analysis of functions), each course becomes a cohesive whole, rather than a collection of unrelated topics. Velice důležitou součástí této me zkoušnosti byla paní profesorka Jana Kalová. Investigate geometric applications of integration including areas, volumes, and lengths (BC) defined by the graphs of functions. Specifically for the AP® Calculus BC exam, this unit builds an understanding of straight-line motion to solve problems in which particles are moving along curves in the plane. A snad právě díky němu jsem začal mit matematiku opravdu rád a posléze ji i začal studovat na vysoké škole. Ukázal mi, že je to svět zábavy, svět hledání pravdy, svět, kde všechno dává smysl. Profesor Edward Burger, který připravoval video do tétoho kurzu, je jedním z nejlepších učitelů matematiky v USA. Without understanding of functions and their properties, derivatives and integrals, it is very difficult to conduct further studies in Physics, certain parts of Chemistry, Economy or even Biology. I started with the Honors Pre-Calculus course and then continued by AP Calculus BC. Ve třefaku jsem pak pokračoval kurzem AP Calculus BC, když mi dal velmi solidní základy diferenciálního a integrálního počtu, na kterých jsem mohl s přehledem stavět při studiu na University of Aberdeen, na níž jsem ve studiu matematiky pokračoval. But it was not just professor Burger who showed my what a joy doing maths is. In particular, before studying calculus, students must be familiar with the properties of functions, the composition of functions, the algebra of functions, and the graphs of functions. RECOMMENDED PREREQUISITES Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students: courses that should prepare them with a strong foundation in reasoning with algebraic symbols and working with algebraic structures. Close this unit by analyzing asymptotes and discontinuities. Extend knowledge of limits by exploring average rates of change over increasingly small intervals. These courses taught me what is the mathematical thinking and how to think about maths problems. In AP Calculus BC, the concepts of integration and differentiation were amazingly explained by professor Edward Burger, one of the best teachers of mathematics in the USA. Both courses require students to use definitions and theorems to build arguments and justify conclusions. Professor Jana Kalová, my supervisor in this programme, was helping me to understand what I was not able to grasp yet, to help me keep pace with the course tempo and to motivate me when I felt it is too much work for me. Internalize procedures for basic differentiation in preparation for more complex functions later in the course. Understand derivatives as a tool for determining instantaneous rates of change of one variable with respect to another. Limits help us understand the behavior of functions as they approach specific points or even infinity. Teachers and students should regularly use technology to reinforce relationships among functions, to confirm written work, to implement experimentation, and to assist in interpreting results. If you're behind a web filter, please make sure that the domains *.kastatic.org and *.kasandbox.org are unblocked. Daniel Mužátko, student CTM, my student University of Aberdeen Write and solve equations that model exponential growth and decay, as well as logistic growth (BC). Extend work with integrals to find a function's average value, model particle motion, and calculate net change. Practice working with Taylor and Maclaurin series and utilize power series to reach an approximation of given functions. In this course we will guide the student through the world of functions and their properties, limits, derivatives and their applications. Consider different representations of series to grow intuition and conceptual understanding. AP Calculus BC is an extension of AP Calculus AB, and each course is challenging and demanding and requires a similar depth of understanding of topics. AP Calculus BC applies the content and skills learned in AP Calculus AB to parametrically defined curves, polar curves, and vector-valued functions; develops additional integration techniques and applications; and introduces the topics of sequences and series. During my high school studies, I was using many sources to learn maths - I was taking part in internships, reading books, watching interesting videos on YouTube - but nothing was as beneficial as doing these CTM Online courses. If you're seeing this message, it means we're having trouble loading external resources on our website. Naši absolventi jsou na tuto náročnou zkoušku výborně připraveni. Find critical points and extrema of functions, as well as describe concavity and if a function increases or decreases over certain intervals. Understand polar equations as special cases of parametric equations and reinforce past learnings to analyze more complex graphs, lengths, and areas. In this final topic specifically for the AP® Calculus BC exam, see how a sum of infinite terms might actually converge on a finite value. Prospective calculus students should take courses in which they study algebra, geometry, trigonometry, analytic geometry, and elementary functions. I am eternally grateful to everyone who gave me this opportunity and I would recommend this courses to anyone anytime. Jana Kalová, PhD., CTM Online instructor Struktura kurzu Study Scope and Sequence AP Calculus BC Course and Exam Content The course content is organized into ten commonly taught units, which have been arranged in the following suggested, logical sequence: ■ Unit 1: Limits and Continuity ■ Unit 2: Differentiation: Definition and Fundamental Properties ■ Unit 3: Differentiation: Composite, Implicit, and Inverse Functions ■ Unit 4: Contextual Applications of Differentiation ■ Unit 5: Analytical Applications of Differentiation ■ Unit 6: Integration: Accumulation of Change ■ Unit 7: Differential Equations ■ Unit 8: Applications of Integration ■ Unit 9: Parametric Equations, Polar Coordinates, and Vector-Valued Functions ■ Unit 10: Infinite Sequences and Series Syllabus kurzu Materiályk vám k tomu kurzu potřebujete tyto učebnice a studijní pomůcky (pokud je k tomu potřebujete laboratoře a soud). Zkuste si nejdříve dohodnut možnost využívat skolu/laboratoře). 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