

AP CALC BC FORMULA STUDY GUIDE

Absolute Value

$$|x| = \begin{cases} -x, & \text{if } x < 0 \\ x, & \text{if } x \geq 0 \end{cases}$$

Even / Odd Function

evaluate $f(x)$ $f(-x) = f(x)$	f' is even	symmetric to $y = x$
$f(-x) = -f(x)$	odd	origin

Theorems

$$\lim_{x \rightarrow a} f(g(x)) = f(\lim_{x \rightarrow a} g(x))$$

$$\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1 \quad \lim_{x \rightarrow 0} \frac{\cos x - 1}{x} = 0$$

Horizontal Asymptote(s) of f

$$y = \lim_{x \rightarrow \infty} f(x) \text{ or } y = \lim_{x \rightarrow -\infty} f(x)$$

Infinite Limits

$$\lim_{x \rightarrow \infty} \frac{f(x)}{g(x)}$$

- if $f(x)$ grows faster, the limit = ∞
- if $g(x)$ grows faster, the limit = 0
- if $f(x)$ & $g(x)$ are polynomials with the same degree, the limit = the ratio of their leading coefficient to

Continuity

f is continuous at a number a , if

(1) $f(a)$ is defined

(2) $\lim_{x \rightarrow a} f(x)$ exists

(3) $\lim_{x \rightarrow a} f(x) = f(a)$

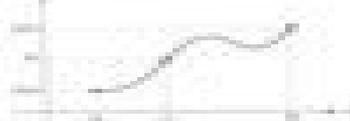
Intermediate Value Theorem

If f is continuous on $[a, b]$ and f is arbitrary between

$f(a)$ and $f(b)$, then there is at least

one number c in $[a, b]$ such that

$$f(c) = M.$$



Average Rate of Change of a function $f(x)$ over closed

$$\text{interval } [a, b] \text{ is } \frac{f(b) - f(a)}{b - a}$$

Chain Rule

Definition of a Derivative

$$f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$

$$f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

Derivatives

$$\frac{d}{dx} \sin(x) = \cos(x)$$

$$\frac{d}{dx} (e^x) = e^x$$

$$\frac{d}{dx} \cos(x) = -\sin(x)$$

$$\frac{d}{dx} (e^{-x}) = -e^{-x}$$

$$\frac{d}{dx} \tan(x) = \sec^2(x)$$

$$\frac{d}{dx} (e^{ax}) = ae^{ax}$$

$$\frac{d}{dx} \cot(x) = -\csc^2(x)$$

$$\frac{d}{dx} (\ln x) = \frac{1}{x}$$

$$\frac{d}{dx} \sec(x) = \sec(x)\tan(x)$$

$$\frac{d}{dx} \csc(x) = -\csc(x)\cot(x)$$

$$\frac{d}{dx} \tan^{-1}(x) = \frac{1}{1+x^2}$$

$$\frac{d}{dx} [f^{-1}(x)] = \frac{1}{f'(f^{-1}(x))}$$

Product Rule

$$\frac{d}{dx} f(x)g(x) = f'(x)g(x) + g'(x)f(x)$$

Quotient Rule

$$\frac{d}{dx} \left(\frac{f(x)}{g(x)} \right) = \frac{g(x)f'(x) - f(x)g'(x)}{(g(x))^2}$$

Chain Rule

$$\frac{d}{dx} f(g(x)) = f'(g(x))g'(x)$$

Linear Approximation / Tangent

Line approximation of f at a is

$$L(x) = f'(a)(x-a) + f(a)$$

L'Hopital's Rule

$$\text{if } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = 0/0 \text{ or } \infty/\infty,$$

$$\text{then } \lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \lim_{x \rightarrow a} \frac{f'(x)}{g'(x)}$$

Mean Value Theorem

If f is continuous on $[a, b]$ and differentiable on (a, b) , then there is a number c in (a, b) such that

$$f'(c) = \frac{f(b) - f(a)}{b - a}$$



Extreme Value Theorem

If f is continuous on $[a, b]$, then f has both a minimum and a maximum on the interval.

Critical Number

c is a critical number of f if either $f'(c)$ does not exist or $f'(c) = 0$.

Absolute Minimum/Maximum of f over a Closed Interval $[a, b]$

- Find the critical values of f .
- Plug critical values and endpoints into f to find the absolute min/max.

Increasing / Decreasing

Let f be continuous on $[a, b]$ and differentiable on (a, b) .

- if $f'(x) > 0$, f is increasing
- if $f'(x) < 0$, f is decreasing

First Derivative Test

Let c be a critical number of a continuous function f .

- if $f'(x)$ changes from positive to negative at c , then f has a local maximum at c .
- if $f'(x)$ changes from negative to positive at c , then f has a local minimum at c .

Concavity

- if $f''(x) > 0$, f is concave up
- if $f''(x) < 0$, f is concave down

Point of Inflection

is where f is continuous and changes from concave up to concave down, or vice versa.

Second Derivative Test

If f has a critical value at c , $f'(c) = 0$, and

- if $f''(c) > 0$, then f has a local minimum at c .
- if $f''(c) < 0$, then f has a local maximum at c .

Particle motion at rest: $v(t) = 0$

Moving in positive direction: $a(t) > 0$

Moving in negative direction: $a(t) < 0$

Moving in positive direction: $v(t) > 0$

Moving in negative direction: $v(t) < 0$

Ap Calculus Bc Study Guide

E Durkheim



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AP Calculus BC LearningExpress (Organization),2020 This comprehensive study guide offers a crash course for the the official AP Calculus BC Exam Includes detailed test information helpful review and essential practice to help you prepare

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adjunct professor at Queens College where she taught Algebra and Calculus II Currently she teaches mathematics at Bayside High School in Bayside New York and coaches the math team for the school Her favorite course to teach is AP Calculus because it requires the most discipline rigor and creativity About Our Editor and Technical Accuracy Checker Stu Schwartz has been teaching mathematics since 1973 For 35 years he taught in the Wissahickon School District in Ambler Pennsylvania specializing in AP Calculus AB and BC and AP Statistics Mr Schwartz received his B S degree in Mathematics from Temple University Philadelphia Mr Schwartz was a 2002 recipient of the Presidential Award for Excellence in Mathematics Teaching and also won the 2007 Outstanding Educator of the Year Award for the Wissahickon School District Mr Schwartz s website www.mastermathmentor.com is geared toward helping educators teach AP Calculus AP Statistics and other math courses Mr Schwartz is always looking for ways to provide teachers with new and innovative teaching materials believing that it should be the goal of every math teacher not only to teach students mathematics but also to find joy and beauty in math as well

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Barron's AP Calculus with CD-ROM David Bock, Dennis Donovan, Shirley O. Hockett, 2015-02-01 Both Calculus AB and Calculus BC are covered in this comprehensive AP test preparation manual. The book's main features include Four practice exams in Calculus AB and four more in Calculus BC. All test questions answered with solutions explained. A detailed subject review covering topics for both exams. Advice to students on efficient use of their graphing calculators. The manual comes with a CD-ROM presenting two more practice tests with answers. One test is in Calculus AB and the other in Calculus BC. **BONUS ONLINE PRACTICE TEST** Students who purchase this book or package will also get FREE access to one additional

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Table of Contents Ap Calculus Bc Study Guide

1. Understanding the eBook Ap Calculus Bc Study Guide
 - The Rise of Digital Reading Ap Calculus Bc Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Calculus Bc Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Calculus Bc Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Calculus Bc Study Guide

- Personalized Recommendations
 - Ap Calculus Bc Study Guide User Reviews and Ratings
 - Ap Calculus Bc Study Guide and Bestseller Lists
5. Accessing Ap Calculus Bc Study Guide Free and Paid eBooks
 - Ap Calculus Bc Study Guide Public Domain eBooks
 - Ap Calculus Bc Study Guide eBook Subscription Services
 - Ap Calculus Bc Study Guide Budget-Friendly Options
 6. Navigating Ap Calculus Bc Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Calculus Bc Study Guide Compatibility with Devices
 - Ap Calculus Bc Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Calculus Bc Study Guide
 - Highlighting and Note-Taking Ap Calculus Bc Study Guide
 - Interactive Elements Ap Calculus Bc Study Guide
 8. Staying Engaged with Ap Calculus Bc Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Calculus Bc Study Guide
 9. Balancing eBooks and Physical Books Ap Calculus Bc Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Calculus Bc Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ap Calculus Bc Study Guide
 - Setting Reading Goals Ap Calculus Bc Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ap Calculus Bc Study Guide

- Fact-Checking eBook Content of Ap Calculus Bc Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
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regulating flap control unit j808 q removing and installing chapter q if renewed erase learnt values and adapt engine control unit j623 vehicle diagnostic tester guided functions 7 7 nm q self tapping bolt q

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feb 13 2018 throttle actuator control motor throttle actuator control motor relay possible solutions check replace fuse s check replace all faulty wiring connector s read measuring value blocks mvb when is the code detected power supply for the throttle control motor is provided to the engine control module ecm via throttle control motor relay

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dec 19 2014 the v380 is part of the j808 regulating flap control unit and shares the same 5 pin connector it is used to

regulate the intake air diesel engines do not use throttle body units their engine speed is regulated controlled by the amount of fuel injected

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remove fresh air recirculated air air flow flap control motor v425 1 from air intake duct disconnect electrical connector 3 installing installation is carried out in the reverse order when installing note the following note check operation of flaps and hinge mechanism before fitting

1 4 tsi gt p10a4 fault fix uk volkswagen forum - Nov 09 2022

nov 21 2018 scanning codes gave p10a4 intake air flap control actuator mechanical malfunction more often than not this would only happen when cold and the code could often be cleared after it had been run for a while i had a full diagnostic run which included running through test cycles of all valves and actuators and this showed nothing up

p2009 intake manifold air control actuator solenoid bank 1 - Oct 08 2022

apr 30 2017 obd ii fault code p2009 is a generic code that is most commonly defined as intake manifold air control actuator solenoid bank 1 circuit low but sometimes also as intake manifold runner control imrc solenoid control circuit low bank 1 or less often as intake manifold runner control circuit low bank 1

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feb 16 2016 searching for fault code p10a4 gets me several vag related forum posts that indicate that the problem is related to a vacuum operated flap in the air intake and that the fault sends you into limp mode which agrees with what you report the fix seems to be to replace the intake manifold which seems a little drastic to me

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oct 5 2019 the fault that s caused limp mode is p10a0 actuation regulating flap for intake air electrical which is the regulating flap for the air bypass of the supercharger people commonly misdiagnose the 004256 control circuit for intake air regulating flap error for n75 valves or throttle bodies as its an error specific to the 1 4 tsi

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oct 16 2016 i pulled the intake manifold flap actuator and bench tested it by applying voltage across the motor pins and the actuator arm moved appropriately i was convinced that the motor and linkage was operating properly also the linkage and the arm on the manifold operated smoothly without any effort

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jan 21 2012 step 1 locate the imrc motor it s on the driver s side of the engine under the hpfp on the side of the intake manifold see the pic below its circled in red step 2 remove the wiring harness that s in the way just unplug all connectors that you see attached to that big harness throttle body hpfp the motor itself etc

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pull off front air distribution flap control motor v426 1 and remove it disconnect electrical connector 3 installing installation is carried out in the reverse order when installing note the following note check operation of flaps and hinge mechanism before fitting make sure levers and shafts are properly fitted in the mounts