
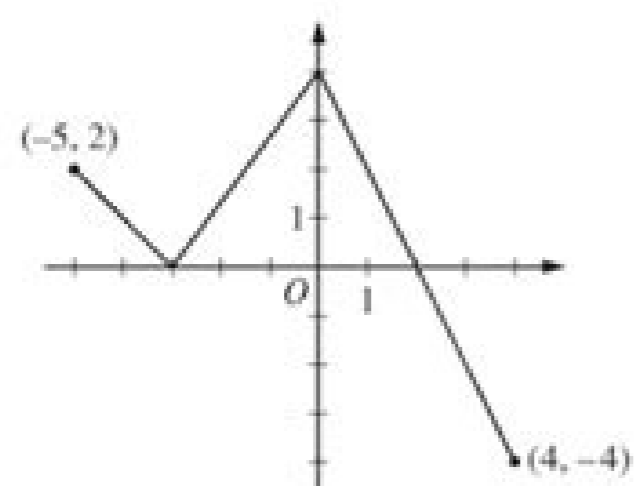


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No calculator is allowed for these problems.



Graph of f

3. The function f is defined on the closed interval $[-5, 4]$. The graph of f consists of three line segments and is shown in the figure above. Let g be the function defined by $g(x) = \int_{-3}^x f(t) dt$.

- Find $g(3)$.
- On what open intervals contained in $-5 < x < 4$ is the graph of g both increasing and concave down? Give a reason for your answer.
- The function h is defined by $h(x) = \frac{g(x)}{5x}$. Find $h'(3)$.
- The function p is defined by $p(x) = f(x^2 - x)$. Find the slope of the line tangent to the graph of p at the point where $x = -1$.

- | | |
|---|--|
| 1. $f(x) = x^2 \sin x$ | 2. $f(x) = x \cos x + 2 \tan x$ |
| 3. $f(x) = e^x \cos x$ | 4. $y = 2 \sec x - \csc x$ |
| 5. $y = \sec \theta \tan \theta$ | 6. $g(\theta) = e^\theta (\tan \theta - \theta)$ |
| 7. $y = c \cos t + t^2 \sin t$ | 8. $f(t) = \frac{\cot t}{e^t}$ |
| 9. $y = \frac{x}{2 - \tan x}$ | 10. $y = \sin \theta \cos \theta$ |
| 11. $f(\theta) = \frac{\sin \theta}{1 + \cos \theta}$ | 12. $y = \frac{\cos x}{1 - \sin x}$ |
| 13. $y = \frac{t \sin t}{1 + t}$ | 14. $y = \frac{\sin t}{1 + \tan t}$ |
| 15. $f(\theta) = \theta \cos \theta \sin \theta$ | 16. $f(t) = te^t \cot t$ |

The derivative of arcsin

Let $y = \arcsin x$, so $x = \sin y$. Then

$$\cos y \frac{dy}{dx} = 1 \implies \frac{dy}{dx} = \frac{1}{\cos y} = \frac{1}{\cos(\arcsin x)}$$

To simplify, look at a right triangle:

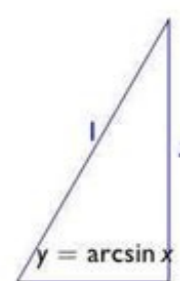


Table of Derivatives

Math Calculus Derivatives Table Of

Power of x.

$\frac{d}{dx} c = 0$	$\frac{d}{dx} x = 1$	$\frac{d}{dx} x^n = n x^{n-1}$ Proof
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Exponential / Logarithmic

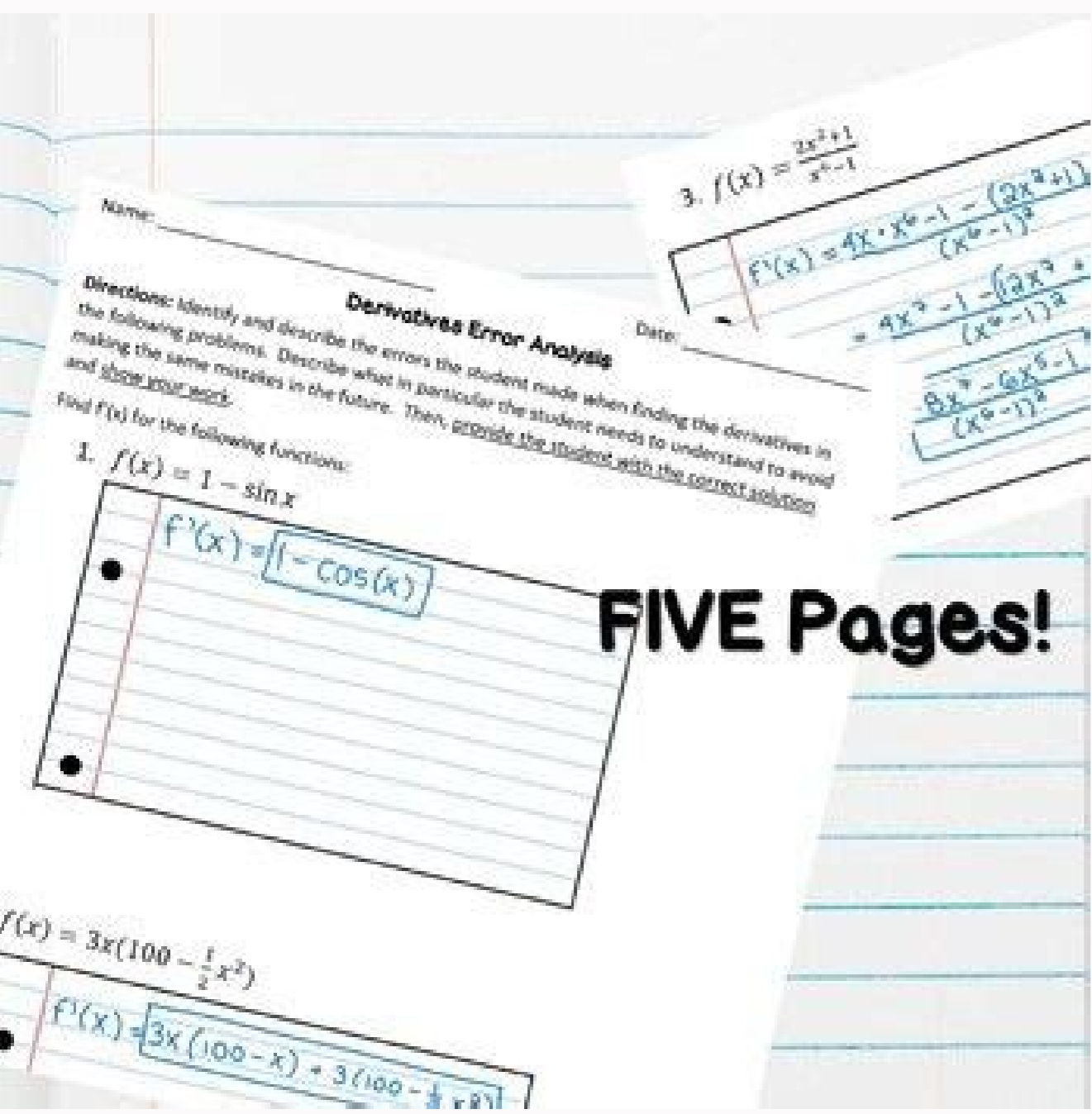
$\frac{d}{dx} e^x = e^x$ Proof	$\frac{d}{dx} b^x = b^x \ln(b)$ Proof	$\frac{d}{dx} \ln(x) = 1/x$ Proof
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Trigonometric

$\frac{d}{dx} \sin x = \cos x$ Proof	$\frac{d}{dx} \csc x = -\csc x \cot x$ Proof
$\frac{d}{dx} \cos x = -\sin x$ Proof	$\frac{d}{dx} \sec x = \sec x \tan x$ Proof
$\frac{d}{dx} \tan x = \sec^2 x$ Proof	$\frac{d}{dx} \cot x = -\csc^2 x$ Proof

Inverse Trigonometric

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FIVE Pages!

Ap calculus derivatives practice worksheet answers. Ap calculus applications of derivatives worksheet. Ap calculus ab trig derivatives worksheet. Ap calculus ab derivative practice. Ap calculus derivatives worksheet.

168-16910/07: HW #20: Complete this sheet: Chain Rule Homework10/06: HW #19: Complete this sheet: Quotient Rule Homework. Textbook page 12610/05: HW #18: Complete the Derivative Activity from classTopics for Exam 2, Thursday, October 14th: Types of DiscontinuityRules for Differentiation (power, product, quotient, reciprocal, chain)Trigonometric DerivativesHigher Order DerivativesApplications of DerivativesRemember Calculus is cumulative by nature.10/04: HW #17: Complete the homework section of this packet. Product Rule 10/01: HW #16: Complete this sheet Applications of Derivatives Homework09/30: HW #15: Complete this sheet: Higher Order Derivatives Homework09/29: HW #14: From textbook pp. 105-106 #s 1-4, 17-20 09/24: HW #11: Complete the Classroom section of this sheet Limits of Difference Quotients09/22: Study for tomorrow's exam09/21: Bring in any questions that you still want to go over in preparation for Thursday's exam 09/20: HW #10: Complete the Continuity pages (pages 6 and 7) from this packet: Limits Practice Packet Topics for Exam 1, Thursday, September 23rdLimits (all types we discussed)Continuity09/17: HW #9: Complete the sheet that you were working on in class (More Limits Practice) 09/15: HW #8: Complete this sheet: Even More Limits Practice 2 09/14: HW #7: Complete this sheet: Even More Limits Practice (**Exam 1 will be Thursday, September 23rd**09/13: HW #6: Complete #s 1-23 odd of this sheet: Trig Limits Practice09/10: HW #5: Complete #s 2-24 even of this sheet: Trig Limits Practice09/09: HW #4: Please complete this sheet: Limits of Trig Functions.) , 01-14 Notes, Here is the key: Key to Midterm Review Packet 01/13: Optimization sheets 1 and 2. Open Top Box Visual. , 01-13 Notes01/12: Do Now. , More Local Linear Approximations. , 01-12 Notes01/11: Exam 2 01/10: Open Review for Exam 2, 01-10 Notes01/07: Snow day01/06: Linear Approximations. , 01-06 Notes01/05: 1984 AB 4, 01-05 Notes01/04: More Practice Questions. , Snowman Answers posted on Google classroom01/03: Do Now: Questions 6 and 7 from the Second Derivative Test packet, Analysis of Functions Do Now. , EVT graph, Extreme Value Theorem, 01-03 Notes12/22: Math Snowmen. , Snowman Template, Snowman Characteristics, Snowman questions are posted on Google classroom12/21: 2012 Multiple Choice #s 1, 2, 4, 5, 7, 9, 11, 14, 16, 18-21, 24, 27, and 28. , Second Derivative Homework KEY12/20: Second Derivative test. , Additional Notes on Relative extrema, points of inflection. , 12-20 Notes12/17: Analysis of Graphs Graphic Organizer. , Analysis of Functions Activity posted in Google classroom. , 12-17 Notes12/16: Practice Problems. , 12-16 Notes12/15: Analyzing Graphs AP Questions 12/14: Do Now: 2003 #s 7, 10 and 2012 #s 76, 80. , Testing for relative extrema and points of inflection. , Notes 12-1412/13: Wrap up Graphs of Derivatives Packet 2. , 12-13 Notes12/10: Exam 112/09: Open Review for Exam 1, 11-30 Notes11/29: Area Between Two Curves - horizontal strips. , 03/23: Do Now. , Area Between Two Curves - vertical strips. , 03/22: Exam 303/21: Open Review for Exam 303/18: 1998 Multiple Choice #s 1-8, 10-20, 22-24, 26-28, 76-83, 85, 87-92. , 03/17: Do Now. , Average Value of a Function. , 03/16: Do Now. , FTC Part II and Motion Free Response practice. , 03/15: Graph. , Do Now. , More FTC Part II. , 03/14: Do Now. , FTC Part II. , 02-25 Notes01/1. , 2003 AB 4, Linear Motion Revisited. , 03/10: Do Now. , Total Distances. , Linear Motion Revisited. , 03/09: Do Now. , Area Approximations. , 03/08: Exam 203/07: Open Review for Exam 203/04: Relationship Between Area Under a curve and the Definite Integral. , 03/03: Intro to Area. , Riemann Sums. , 03/02: Integration Multiple Choice sheet. , 03/01: Do Now. , Differential Equations with initial conditions. , 02/28: Wrap up Separable Differential Equations02/18: 2019 Multiple Choice02/17: Separable Differential Equations. , 02/16: Evaluating Definite Integrals of Piece-wise Functions. , 02/15: Properties of Definite Integrals. , Additivity. , 02/14: Fundamental Theorem of Calculus Part I. , Evaluating Definite Integrals. , 02/11: Do Now. , More Integration Practice. , 02/10: More Integrating with Trig Functions. , 02/09: Exam 102/08: Open Review for Exam 102/07: Antiderivative Practice02/04: Integrating Using U substitution. , Integration Practice 2. , 02-04 Notes02/03: More Special Antiderivatives. , Rewriting the Integrand. , 02-03 Notes02/02: Some Special Antiderivatives. , #s 1-14, 16, 19, 21-32, 41-48, 50, 52, 54, 55, 59. , 02-02 Notes02/01: Finding Antiderivatives. , 02-01 Notes01/31: Motion packet 4. , 01-31 Notes01/28: Motion Packet 3. , Quarter Exam Part II: 20 min, calculator active Optional 10 min Optimization questions01/26: Revisit Linear Approximation and Optimization. , 01-26 Notes01/25: Motion Packet 1. , 01-25 Notes01/24: Quarter Exam Part I: 40 min, no calculator01/21: Open Review for Quarter Exam. , 01-21 Notes01/20: Linear Motion Review #2 is Do Now skip part b for now). , Mean Value Theorem. , Optimization sheet 4 KEY. , 01-20 Notes01/19: Do Now. , Wrap up Optimization. , Optimization sheet 4. , 1997 Multiple Choice #s 2, 4, 5, 7, 8, 10-15, 17, 19, 21, 22. , 01-19 Notes01/18: More Optimization Practice. , 01-18 Notes01/14: Optimization sheet 3. , Surface Area of a Cylinder Visual. , Here is the Midterm Review packet from two years ago: Midterm Review Packet. , Some Midterm Notes (I still think that these are valuable resources for you to have even though there is no Midterm this year. , Feel free to use these questions for extra practice and I will post a key next week. (It is from the Limits Practice packet)09/03: HW #3: Please complete Limits Review B09/02: HW #2: Complete #s 1-21 odd from the Evaluating Limits 2 packet09/01: HW #1: Please get course policies sheet signed. Also please make sure that you have signed up for the Remind app for this class (click here). , Google Classroom, DeltaMath, and AP Classroom. , Skip the textbook homework.10/14: Study for tomorrow's exam10/13: Please bring in questions for tomorrow's open review10/08: HW #21: DUE WEDNESDAY: Complete this sheet: Derivatives Homework. , pp. The answers to the even numbered problems will be given in class.02/04: HW #69: Complete #s 1-15 from the Integration Practice sheetTopics for Exam 1. , Quarter 3. , Wednesday, February 9thIntegration (not including a sub)Mean Value TheoremIntermediate Value TheoremMotion02/03: HW #68: The first 3 free response questions from this packet Practice Free Response02/02: HW #67: Complete this sheet: Linear Approximation/Integration Practice 02/01: No homework day01/31: No homework day01/28: HW #66: Complete this sheet: Linear Motion AP problems and go back to HW #64 and do part d for #s 11-1401/27: HW #65: Complete Motion Packet 301/26: Prepare for Linear Approximation/Implicit Differentiation/Optimization part of Quarter Exam01/25: HW #64: From this sheet HW 64 #s 11-14 (skip part d)01/21: Study for Quarter Exam01/20: DUE TUESDAY: HW #63: From this sheet MVT Homework #s 12-16 even, 19 and 20. , For tomorrow: please bring in questions for tomorrow's open review01/19: HW #62: Complete 1997 Multiple Choice #s 2, 4, 5, 7, 8, 10-15, 17, 19, 21, 22Topics for Quarter Exam. , Monday, January 24th (40 min) and Thursday, January 27th (10 min)L'Hopital'sImplicit DifferentiationDerivatives of Inverse Trigonometric FunctionsDerivatives of Exponential and Logarithmic FunctionsRelated RatesGraphs of DerivativesAnalysis of FunctionsFinding relative and absolute extrema (EVT), points of inflection, changes in concavity, increasing, decreasing, critical points, sketching...Linear ApproximationOptimization01/18: HW #61: Finish the More Optimization Problems sheet 01/14: HW #60: From Optimization Sheet 3 (min/max sheet 3) #s 3-501/13: HW #59: From Optimization sheets 1 and 2 #s 4-601/12: HW #58: Complete the rest of the More Local Linear Approximations sheet (skip #3)01/10: Study for tomorrow's exam01/07: No homework day. , Bring in any questions for Monday's Open Review01/06: No homework day01/05: HW #57: Complete 1991 AB 5. , 1990 BC 7Topics for Exam 2. , Tuesday, January 11th:Graphs of DerivativesAnalysis of FunctionsFinding relative and absolute extrema (EVT), points of inflection, changes in concavity, increasing, decreasing, critical points, sketching...01/04: HW #56: Complete the More Practice Questions packet that you were working on in class. **Exam 2: Tuesday, January 11th**01/03: HW #55: Complete this packet: Extreme Value Theorem Homework AND remember your completed snowman and any all work must be uploaded to Google classroom as a single pdf file by the beginning of your period tomorrow12/22: HW #54: DUE TUESDAY 01/04: Complete your snowman12/21: HW #53: Finish 2012 Multiple Choice #s 1, 2, 4, 5, 7, 9, 11, 14, 16, 18-21, 24, 27, and 28. , Please upload to Google classroom.12/20: HW #52: Complete this packet: Second Derivative Test Homework12/17: HW #51: Complete the DeltaMath assignment posted. This is NOT a graded assignment, it is just a homework assignment.12/16: HW #50: Complete the Practice problems packet that you started in class today.12/15: HW #49: Complete the sheet that you were working on in class today (Analyzing Graphs AP Questions)12/14: HW #48: Complete this packet: First Derivative Test and Finding Points of Inflection Homework12/13: HW #47: Complete this sheet HW #47 skip part (d)12/09: Study for Exam 1 Q212/08: Bring in questions for tomorrow's Open Review for Exam 1 Quarter 212/07: HW #46: Complete pages 4 and 5 of the Graphs of Derivatives Packet 112/06: HW #45: Complete #s 19, 21 and 22 from Textbook pages 256-25712/03: HW #44: From the Related Rates Packet 3: 1984 AB 5, 1988 AB 3, 1990 AB 412/02: HW #43: Complete this sheet: More Related RatesTopics for Exam 1, Friday, December 10th:L'Hopital'sImplicit DifferentiationDerivatives of Inverse Trigonometric FunctionsDerivatives of Inverse Functions TheoremDerivatives of Exponential and Logarithmic FunctionsRelated Rates12/01: HW #42: From Related Rates Packet 2 #s 9-1311/30: HW #41: From Related Rates Packet 1 #7 and Related Rates Packet 2 #s 1, 5, 6a11/29: HW #40: Complete the Related Rates Intro Homework section of the Introduction to Related Rates packet: 11/23: Enjoy your break. , Rest and recharge.11/22: HW #39: Complete the L'Hopital's sheet. **Exam 1: Friday, December 3rd**11/19: HW #38: Complete the classwork sheet from today (11-18 Work) 11/18: HW #37: Complete the Inverse Function Theorem sheet (Remember you can use your calculator to find the zero in #9)11/17: HW #36: Complete this sheet: Derivatives of Inverse Trig Functions Homework11/16: HW #35: Complete this sheet: Derivatives of Logarithms and Exponentials Homework11/15: HW #34: Complete the rest of this packet Implicit Differentiation packet skip # 811/12: HW #33: From the Implicit Differentiation packet #s 1-111/09: Study for tomorrow's Quarter Exam11/08: Bring in any questions for tomorrow's Open Review for the Quarter ExamTopics for Quarter Exam. , Wednesday November 10th:DifferentiabilityFormal Definition of DerivativeMore Chain Rule (with Trig, with charts)Types of DiscontinuityRules for Differentiation (power, product, quotient, reciprocal, chain)Trigonometric DerivativesHigher Order DerivativesApplications of Derivatives Limits (all types we discussed)ContinuityDerivatives of the natural exponent and the natural logMotion1/05: Prepare for Exam

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