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$$I_1 = \int \frac{2+6x}{1+2x+3x^2} dx$$

Let $1+2x+3x^2 = t$

$$\Rightarrow (2+6x)dx = dt$$

$$\therefore I_1 = \int \frac{dt}{t}$$

$$I_1 = \log|t|$$

$$I_1 = \log\left|1+2x+3x^2\right| \qquad \ldots(2)$$

$$I_2 = \int \frac{1}{1+2x+3x^2} dx$$

Conics Summary

Conic Section	Standard Form	Other Info.
Circle Centre (h,k) Radius r	$(x-h)^2+(y-k)^2=r^2$	Derived from the distance formula. $\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}=d$
Parabola - Vertex (h,k) Focus $(h, k+p)$ Directrix at $y = k - p$	$(x-h)^2 = 4p(y-k)$	$p > 0$ opens up, $p < 0$ opens down
Foci $(h+p, k)$ Directrix at $x = h - p$	$(y-k)^2 = 4p(x-h)$	$p > 0$ opens right, $p < 0$ opens left
Ellipse - Centre (h,k) • Horizontal major axis: a > b Vertices: $(h \pm a, k)$ Foci: $(h \pm c, k)$	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$	• The longer axis is called the major axis, the shorter axis is called the minor axis. • 'a' is the distance from the centre to each vertex (the end of the major axis).
• Vertical major axis: a > b Vertices: $(h, k \pm a)$ Foci: $(h, k \pm c)$	$\frac{(y-k)^2}{a^2} + \frac{(x-h)^2}{b^2} = 1$	• 'b' is the distance from the centre to the end of the minor axis. • 'c' is the distance from the centre to each focus. $c^2 = a^2 - b^2$ • Length of major axis = 2a • Length of minor axis = 2b
Hyperbola - Centre (h,k) • Horizontal transverse axis (x coefficient is positive) Vertices: $(h \pm a, k)$ Foci: $(h \pm c, k)$	$\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$	• 'a' is the distance from the centre to each vertex. • 'b' is a point on the conjugate axis but is not a point on the hyperbola (it helps determine asymptotes) • 'c' is the distance from the centre to each focus. $c^2 = a^2 + b^2$
• Vertical transverse axis (y coefficient is positive) Vertices: $(h, k \pm a)$ Foci: $(h, k \pm c)$	$\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$	• Note: The transverse axis is not necessarily the longer axis but is associated with whichever variable is positive
$Ax^2 + Cy^2 + Dx + Ey + F = 0$	• If $A*C < 0$ • ELLIPSE	• If $A*C > 0$ • HYPERBOLA	• If $A*C = 0$ • PARABOLA	• If $A = C$ • CIRCLE

d) The ball hits the ground when $h = 0$

This occurs when $0 = 6t - t^2$

i.e $0 = t(6-t)$

$t = 0$ or $t = 6$ seconds

$v = f'(h) = 6 - 2t$

$v = f'(6) = 6 - 12$

$= -6\, m/s$

The velocity of the ball is - 6 m/s

One contains all the information, one has just Limits information, one has just Derivatives information and the final one has just Integrals information. The topics covered are a brief review of arithmetic with complex numbers, the complex conjugate, modulus, polar and exponential form and computing powers and roots of complex numbers. Note that this primer does assume that you've at least seen some complex numbers prior to reading. Several topics rely heavily on trig and knowledge of trig functions. The other version is a reduced version that contains exactly the same information as the full version except it has just been shrunk down so two pages print of the front and two pages print on the back of a single piece of paper. This table gives many of the commonly used Laplace transforms and formulas. Series Solutions - Series Solutions, Euler Differential Equations. There is some review of a couple of Algebra and Trig topics, but for the most part it is assumed that you do have a decent background in Algebra and Trig. In particular it is assumed that the exponents and factoring sections will be more a review for you. These notes assume no prior knowledge of differential equations. Later solutions are usually not as detailed, but may contain more/new information as required. As time permits I will be adding more sections as well. Graphing particular types of equations is covered extensively in the notes, however, it is assumed that you understand the basic coordinate system and how to plot points. Applications of Partial Derivatives - Tangent Plane, Normal Line, Relative Extrema, Absolute Extrema, Optimization, Lagrange Multipliers. Applications of Derivatives - Related Rates, Critical Points, Minimum and Maximum Values, Increasing/Decreasing Functions, Inflection Points, Concavity, Optimization Integration - Definition, Indefinite Integrals, Definite Integrals, Substitution Rule, Evaluating Definite Integrals, Fundamental Theorem of Calculus Applications of Integrals - Average Function Value, Area Between Curves, Solids of Revolution, Work. Line Integrals - Vector Fields, Line Integrals With Respect to Arc Length, Line Integrals With Respect to x and y, Line Integrals of Vector Fields, Fundamental Theorem of Line Integrals, Conservative Vector Fields, Potential Functions, Green's Theorem, Curl, Divergence. Calculus Cheat Sheets - These are a series of Calculus Cheat Sheets that covers most of a standard Calculus I course and a few topics from a Calculus II course. Class Notes All of the classes, with the exception of Differential Equations, have practice problems (with solutions) you can use for practice as well as a set of assignment problems (without solutions/answers) for instructors to use if they wish. In other words, they do not assume you've got any prior knowledge other than the standard set of prerequisite material needed for that class. Not all the topics covered in an Algebra or Trig class are covered in this review. here are two versions of the cheat sheet available. This portion of the site should be of interest to anyone looking for common math errors. Algebra (Math 1314) [Notes] [Practice Problems] [Assignment Problems] - Topics included in this set of notes/tutorial are : Preliminaries - Exponent Properties, Rational Exponents, Negative Exponents, Radicals, Polynomials, Factoring, Rational Expressions, Complex Numbers Solving Equations and Inequalities - Linear Equations, Quadratic Equations, Completing the Square, Quadratic Formula, Applications of Linear and Quadratic Equations, Reducible to Quadratic Form, Equations with Radicals, Linear Inequalities, Polynomial & Rational Inequalities, Absolute Value Equations & Inequalities. Calculus I (Math 2413) [Notes] [Practice Problems] [Assignment Problems] - Topics included in this set of notes/tutorial are :

Algebra/Trig Review - Trig Functions and Equations, Exponential Functions and Equations, Logarithm Functions and Equations. One is full sized and is currently four pages. The review is in the form of a problem set with the first solution containing detailed information on how to work that type of problem. I've mostly covered topics that are of particular importance to students in a Calculus class. I've tried to write the notes/tutorials in such a way that they should be accessible to anyone wanting to learn the subject regardless of whether you are in my classes or not. Also included are reminders on several integration techniques. The other four sections are more general errors or cover Algebra and Trig errors. The Calculus III notes/tutorial assume that you've got a working knowledge Calculus I, including limits, derivatives and integration. Fred, Mike and David have caught quite a few typos that I'd missed and been nice enough to send them my way. Boundary Value Problems & Fourier Series - Boundary Value Problems, Eigenvalues and Eigenfunctions, Orthogonal Functions, Fourier Sine Series, Fourier Cosine Series, Fourier Series. This includes a working knowledge of differentiation and integration. It is currently two pages long with the first page being the Laplace transforms and the second being some information/facts about some of the entries. Among the reviews/extras that I've got are an Algebra/Trig review for my Calculus Students, a Complex Number primer, a set of Common Math Errors, and some tips on How to Study Math. Due to the nature of the mathematics on this site it is best views in landscape mode. Exponential and Logarithm Functions - Exponential Functions, Logarithm Functions, Solving Exponential Functions, Solving Logarithm Functions, Applications. Common Graphs - Parabolas, Ellipses, Hyperbolas, Absolute Value, Square Root, Constant Function, Rational Functions, Shifts, Reflections, Symmetry. Calculus III (Math 3435) [Notes] [Practice Problems] [Assignment Problems] - Topics included in this set of notes/tutorial are : Three Dimensional Coordinate System - Equations of Lines, Equations of Planes, Quadratic Surfaces, Functions of Multiple Variables, Vector Functions, Limits, Derivatives, and Integrals of Vector Functions, Tangent Vectors, Normal Vectors, Binormal Vectors, Curvature, Cylindrical Coordinates, Spherical Coordinates Partial Derivatives - Limits, Partial Derivatives, Higher Order Partial Derivatives, Differentials, Chain Rule, Directional Derivatives, Gradient. In other words, it is assumed that you know Algebra and Trig prior to reading the Calculus I notes, know Calculus I prior to reading the Calculus II notes, etc. The Calculus I notes/tutorial assume that you've got a working knowledge of Algebra and Trig. Cheat Sheets & Tables Algebra Cheat Sheets - This is as many common algebra facts, properties, formulas, and functions that I could think of. Surface Integrals - Parametric Surfaces, Surface Integrals, Surface Integrals of Vector Fields, Stokes' Theorem, Divergence Theorem. A good grasp of Calculus is required however. I have included a couple of topics that are not that important to a Calculus class, but students do seem to have trouble with on occasion. Trig Cheat Sheets - Here is a set of common trig facts, properties and formulas. Multiple Integrals - Iterated Integrals, Double Integrals, Double Integrals in Polar Coordinates, Triple Integrals in Cylindrical Coordinates, Triple Integrals in Spherical Coordinates, Change of Variables, Surface Area. Polynomial Functions - Dividing Polynomials, Zeroes/Roots of Polynomials, Finding Zeroes of Polynomials, Graphing Polynomials, Partial Fractions. However, only one of the five sections that I've given here directly addresses the topic of Calculus. Calculus II (Math 2414) [Notes] [Practice Problems] [Assignment Problems] - Topics included in this set of notes/tutorial are : Integration Techniques - Integration by Parts, Integrals Involving Trig Functions, Trig Substitutions, Integration using Partial Fractions, Integrals Involving Roots, Integrals Involving Quadratics, Integration Strategy, Improper Integrals, Comparison Test for Improper Integrals, and Approximating Definite Integrals. Applications of Integrals - Arc Length, Surface Area, Center of Mass/Centroid, Hydrostatic Pressure and Force, Probability. Reviews & Extras Algebra/Trig Review - This is an Algebra Review and Trig Review that was originally written for my Calculus I students. There is also a page of common algebra errors included. These notes assume no prior knowledge of Calculus. Systems of Equations - Substitution Method, Elimination Method, Augmented Matrix, Nonlinear Systems. Partial Differential Equations - Heat Equation, Wave Equation, Laplace's Equation, Separation of Variables. If you aren't in a Calculus class or haven't taken Calculus you should just ignore the last section. Thanks again Fred, Mike and David! If you are one of my current students and are here looking for homework assignments I've got a set of links that will get you to the right pages listed here. These downloadable versions are in pdf format. Also, it is assumed that you've seen the basics of graphing equations. Each cheat sheets comes in two versions. Common Derivatives and Integrals - Here is a set of common derivatives and integrals that are used somewhat regularly in a Calculus I or Calculus II class. Limits - Concepts, Definition, Computing, One-Sided Limits, Continuity, Limits Involving Infinity, L'Hospitals Rule Derivatives - Definition, Interpretations, Derivative Formulas, Power Rule, Product Rule, Quotient Rule, Chain Rule, Higher Order Derivatives, Implicit Differentiation, Logarithmic Differentiation, Derivatives of Trig Functions, Exponential Functions, Logarithm Functions, Inverse Trig Functions, and Hyperbolic Trig Functions. The assumptions about your background that I've made are given with each description below. How To Study Math - This is a short section with some advice on how to best study mathematics. Also, this document is in no way intended to be a complete picture of complex numbers nor do I cover all the concepts involved (that's a whole class in and of itself). If your device is not in landscape mode many of the equations will run off the side of your device (should be able to scroll to see them) and some of the menu items will be cut off due to the narrow screen width. The Algebra notes/tutorial assume that you've had some exposure to the basics of Algebra. The purpose of this document is go a little beyond what most people see when the first are introduced to complex numbers in say a College Algebra class. Differential Equations (Math 3301) [Notes] - Topics included in this set of notes/tutorial are : First Order Differential Equations - Linear Equations, Separable Equations, Exact Equations, Equilibrium Solutions, Modeling Problems. For all the typos that they've found and sent my way! I've tried to proof read these pages and catch as many typos as I could, however it just isn't possible to catch all of them when you are also the person who wrote the material. There are a couple of calculus examples in the first four sections, but in all of these cases I've also tried to provide non Calculus examples as well. The intent of this site is to provide a complete set of free online (and downloadable) notes and/or tutorials for classes that I teach at Lamar University. Graphing and Functions - Graphing Lines, Circles, and Piecewise Functions. Function Definition, Function Notation, Function Composition, Inverse Functions. Show Mobile Notice Show All Notes Hide All Notes Mobile Notice You appear to be on a device with a "narrow" screen width (i.e. you are probably on a mobile phone). Welcome to my online math tutorials and notes. To get the downloadable version of any topic navigate to that topic and then under the Download menu you will be presented an option to download the topic. and David A. Here is a complete listing of all the subjects that are currently available on this site as well as brief descriptions of each. Second Order Differential Equations - Homogeneous and Nonhomogeneous Second Order Differential Equations, Fundamental Set of Solutions, Undetermined Coefficients, Variation of Parameters, Mechanical Vibrations Laplace Transforms Eigenvalues/Eigenvectors, Phase Plane, Nonhomogeneous Systems, Laplace Transforms. Common Math Errors - As with the Algebra/Trig review this was originally written for my Calculus I class. Sequences and Series - Sequences, Series, Convergence/Divergence of Series, Absolute Series, Integral Test, Comparison Test, Limit Comparison Test, Alternating Series Test, Ratio Test, Root Test, Estimating the Value of a Series, Power Series, Taylor Series, Binomial Series Vectors - Basics, Magnitude, Unit Vector, Arithmetic, Dot Product, Cross Product, Projection Three Dimensional Coordinate System - Equations of Lines, Equations of Planes, Quadratic Surfaces, Functions of Multiple Variables, Vector Functions, Limits, Derivatives, and Integrals of Vector Functions, Tangent Vectors, Normal Vectors, Binormal Vectors, Curvature, Cylindrical Coordinates, Spherical Coordinates The Calculus II notes/tutorial assume that you've got a working knowledge Calculus I, including Limits, Derivatives, and Integration (up to basic substitution). It is also assumed that you have a fairly good knowledge of Trig. I'd like to thank Shane F, Fred J., Mike K. Each subject on this site is available as a complete download and in the case of very large documents I've also split them up into smaller portions that mostly correspond to each of the individual topics. I've also got a couple of Review/Extras available as well. At present I've gotten the notes/tutorials for my Algebra (Math 1314), Calculus I (Math 2413), Calculus II (Math 2414), Calculus III (Math 3435) and Differential Equations (Math 3301) class online.

Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols; SEE ALL SOLUTIONS. Connected Teaching and Learning. Connected Teaching and Learning from HMH brings together on-demand professional development, students' assessment data, and relevant practice and instruction. Social Emotional Learning Curriculum. Calling all bookworms and teacher's pets! The moment you've been stressing for so long is nigh. Get ready for exam season by learning how best to study for your tests, what foods to feed your overworked brain, and what to do to ease all of that stress. Explore Collection . Undergraduate Courses Lower Division Tentative Schedule Upper Division Tentative Schedule PIC Tentative Schedule CCLE Course Sites course descriptions for Mathematics Lower & Upper Division, and PIC Classes All pre-major & major course requirements must be taken for letter grade only! mathematics courses Math 1: Precalculus General Course Outline Course ... Learn permutation and combination, percentage - formulas, Standard Notation-Math, sample printable graph equations, free online pdf file of solution book to saxon's algebra 2, Holt, Rinehart And Winston Algebra online equation, math problems 9th grade colorado. A BSA Software for Detecting All Types of QTLs in BC, DH, RIL and F2 : 2022-04-28 : econet: Estimation of Parameter-Dependent Network Centrality Measures : 2022-04-28 : emayili: Send Email Messages : 2022-04-28 : EML: Read and Write Ecological Metadata Language Files : 2022-04-28 : exact.n: Exact Samples Sizes and Inference for Clinical Trials ... Package Latest Version Doc Dev License linux-64 osx-64 win-64 noarch Summary;   r-mutex: 1.0.0: BSD: X: X: X: A mutex package to ensure environment exclusivity between Anaconda R and MRO. Hardest math, online factoring tool free precalculus, conics section in 4u maths. Mcgraw hill decimal square, apptitude papers download, grade 5 worksheet gcm, trigonomic values, calculator exponents, simplified radical form, permutation and ... 21/03/2022 - topics consider the following federal tax bracket Find the federal income tax of a married couple with no children who have combined income of $225,000. . mail.google.com C + FIT MyFIT – Stud.. FIT... You take out a loan for $3,000. You pay back the loan with n annual payments of $900 plus a smaller final [...]

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