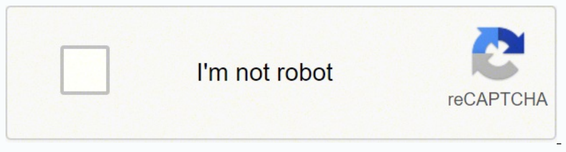

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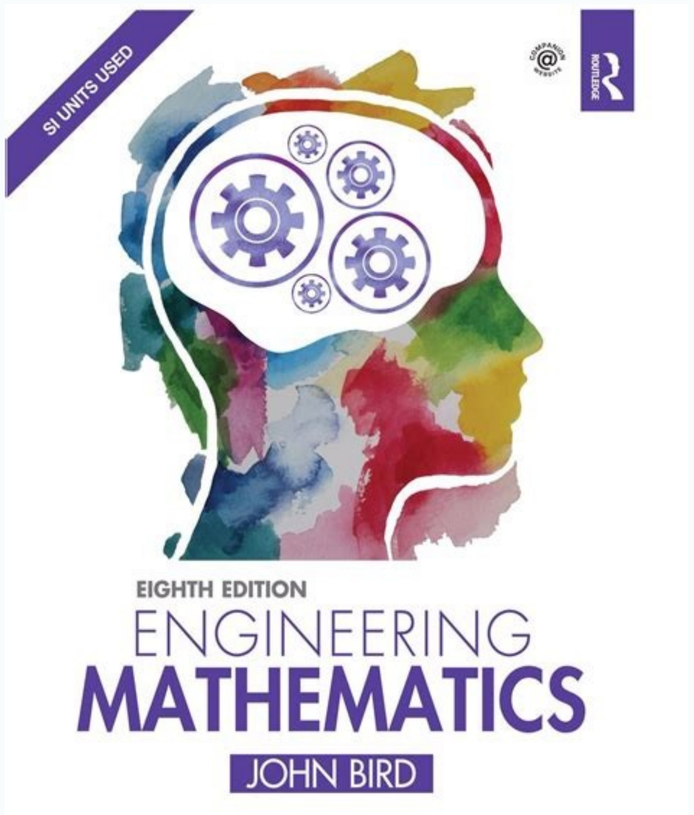


Exercises for Section P.1

The symbol indicates an exercise in which you are instructed to use graphing technology or a symbolic computer algebra system.

Click on $ to view the complete solution of the exercise.

Click on M to print an enlarged copy of the graph.

In Exercises 1–4, match the equation with its graph. [Graphs are labeled (a), (b), (c), and (d).]

(a) (b)

(c) (d)

$ 1. $y = -\frac{1}{2}x + 2$ 2. $y = \sqrt{9 - x^2}$

$ 3. $y = 4 - x^2$ 4. $y = x^3 - x$

In Exercises 5–14, sketch the graph of the equation by point plotting.

$ 5. $y = \frac{1}{2}x + 1$ 6. $y = 6 - 2x$

$ 7. $y = 4 - x^2$ 8. $y = (x - 3)^2$

$ 9. $y = |x + 2|$ 10. $y = |x| - 1$

$ 11. $y = \sqrt{x} - 4$ 12. $y = \sqrt{x + 2}$

$ 13. $y = \frac{2}{x}$ 14. $y = \frac{1}{x - 1}$

In Exercises 15 and 16, describe the viewing window that yields the figure.

$ 15. $y = x^3 - 3x^2 + 4$ 16. $y = |x| + |x - 10|$

In Exercises 17 and 18, use a graphing utility to graph the equation. Move the cursor along the curve to approximate the unknown coordinate of each solution point accurate to two decimal places.

$ 17. $y = \sqrt{5 - x}$ (a) $(2, y)$ (b) $(x, 3)$

18. $y = x^3 - 5x$ (a) $(-0.5, y)$ (b) $(x, -4)$

In Exercises 19–26, find any intercepts.

$ 19. $y = x^3 + x - 2$ 20. $y^2 = x^3 - 4x$

$ 21. $y = x^2\sqrt{25 - x^2}$ 22. $y = (x - 1)\sqrt{x^2 + 1}$

$ 23. $y = \frac{3(2 - \sqrt{x})}{x}$ 24. $y = \frac{x^2 + 3x}{(3x + 1)^2}$

$ 25. $x^2y - x^2 + 4y = 0$ 26. $y = 2x - \sqrt{x^2 + 1}$

In Exercises 27–38, test for symmetry with respect to each axis and to the origin.

$ 27. $y = x^3 - 2$ 28. $y = x^2 - x$

$ 29. $y^2 = x^3 - 4x$ 30. $y = x^5 + x$

$ 31. $xy = 4$ 32. $xy^2 = -10$

$ 33. $y = 4 - \sqrt{x + 3}$ 34. $xy - \sqrt{4 - x^2} = 0$

$ 35. $y = \frac{x}{x^2 + 1}$ 36. $y = \frac{x^2}{x^2 + 1}$

$ 37. $y = |x^3 + x|$ 38. $|y| - x = 3$

In Exercises 39–56, sketch the graph of the equation. Identify any intercepts and test for symmetry.

$ 39. $y = -3x + 2$ 40. $y = -\frac{1}{2}x + 2$

$ 41. $y = \frac{1}{2}x - 4$ 42. $y = \frac{5}{2}x + 1$

$ 43. $y = 1 - x^2$ 44. $y = x^2 + 3$

$ 45. $y = (x + 3)^2$ 46. $y = 2x^2 + x$

$ 47. $y = x^3 + 2$ 48. $y = x^3 - 4x$

$ 49. $y = x\sqrt{x + 2}$ 50. $y = \sqrt{9 - x^2}$

$ 51. $x = y^3$ 52. $x = y^2 - 4$

$ 53. $y = \frac{1}{x}$ 54. $y = \frac{10}{x^2 + 1}$

$ 55. $y = 6 - |x|$ 56. $y = |6 - x|$

In Exercises 57–60, use a graphing utility to graph the equation. Identify any intercepts and test for symmetry.

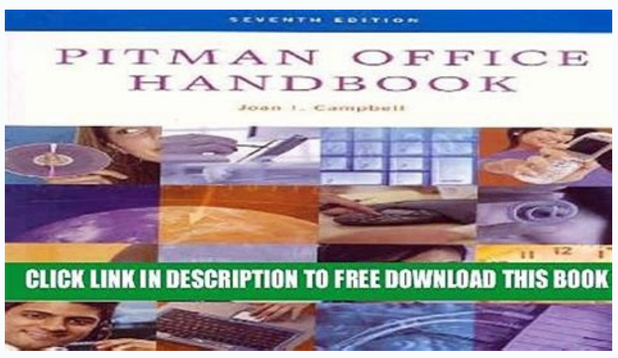
$ 57. $y^2 - x = 9$ 58. $x^2 + 4y^2 = 4$

$ 59. $x + 3y^2 = 6$ 60. $3x - 4y^2 = 8$

In Exercises 61–68, find the points of intersection of the graphs of the equations.

$ 61. $x + y = 2$, $2x - y = 1$ 62. $2x - 3y = 13$, $5x + 3y = 1$

$ 63. $x^2 + y = 6$, $x + y = 4$ 64. $x = 3 - y^2$, $y = x - 1$



Given the description for each parabola, write an equation in factored form and then convert to **general** form.

9) The parabola has one root at $2i$ and $a = 3$.

other root: $-2i$

$y = 3(x+2i)(x-2i)$

$y = 3(x^2 - 2ix + 2ix - 4i^2)$

$y = 3(x^2 + 4)$

$y = 3x^2 + 12$

10) The parabola has one root at $-3i$ and $a = -2$

other root: $3i$

$y = -2(x+3i)(x-3i)$

$y = -2(x^2 - 3ix + 3ix - 9i^2)$

$y = -2(x^2 + 9)$

$y = -2x^2 - 18$

11) The parabola has one root $1 - 4i$ and $a = 1$.

other root: $1+4i$

$y = 1(x-(1-4i))(x-(1+4i))$

$y = 1(x-1+4i)(x-1-4i)$

$y = 1(x^2 - x - 4ix - x + 1 + 4i + 4ix - 4i - 16i^2)$

$y = 1(x^2 - 2x + 1 + 16)$

$y = 1(x^2 - 2x + 17)$

$y = x^2 - 2x + 17$

12) The parabola has one root at $2 + i$ and $a = 2$.

$y = 2(x-(2+i))(x-(2-i))$

$y = 2(x-2-i)(x-2+i)$

$y = 2(x^2 - 2x + ix - 2x + 4 - 2i - ix + 2i - i^2)$

$y = 2(x^2 - 4x + 4 + 1)$

$y = 2(x^2 - 4x + 5)$

$y = 2x^2 - 8x + 10$

Spaceship Math Addition A
1+2, 2+1, 1+3, 3+1
Math Worksheet 1

Name: **Answer Key**

1 +2 = 3	1 +3 = 4	2 +1 = 3	2 +1 = 3	1 +2 = 3	1 +3 = 4	3 +1 = 4	3 +1 = 4
2 +1 = 3	1 +2 = 3	1 +3 = 4	2 +1 = 3	2 +1 = 3	1 +2 = 3	1 +2 = 3	3 +1 = 4
2 +1 = 3	2 +1 = 3	3 +1 = 4	1 +2 = 3	1 +2 = 3	1 +2 = 3	1 +3 = 4	3 +1 = 4
3 +1 = 4	1 +3 = 4	2 +1 = 3	3 +1 = 4	1 +3 = 4	2 +1 = 3	3 +1 = 4	3 +1 = 4
1 +3 = 4	2 +1 = 3	2 +1 = 3	1 +2 = 3	3 +1 = 4	1 +2 = 3	1 +3 = 4	1 +3 = 4

Total: 40	Goal: _____	Complete: _____	Correct: _____

Students can opt out if they wish. 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. 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. 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. 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 is also a page of common algebra errors included. Applications of Partial Derivatives - Tangent Plane, Normal Line, Relative Extrema, Absolute Extrema, Optimization, Lagrange Multipliers. 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. Partial Differential Equations - Heat Equation, Wave Equation, Laplace's Equation, Separation of Variables. Trig Cheat Sheets - Here is a set of common trig facts, properties and formulas. 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. I've made most of the pages on this site available for download as well. 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. How To Study Math - This is a short section with some advice on how to best study mathematics. Don’t forget to register with the Office of Student Accessibility Services to obtain written documentation and to learn about the resources they have available. 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. Any cheating on exams will result in failure in the class and be reported to the Office of Community Standards and Student Responsibility, which may impose additional sanctions. McGraw Hill. This table gives many of the commonly used Laplace transforms and formulas. Review of Prerequisites R.1 Sets and the Real Number Line 2 R.2 Models, Algebraic Expressions, and Properties of Real Numbers 17 R.3 Integer Exponents and Scientific Notation 27 R.4 Rational Exponents and Radicals 39 R.5 Polynomials and Multiplication of Radicals 53 Problem Recognition Exercises: Simplifying Algebraic Expressions 64 R.6 Factoring 65 R.7 Rational Expressions and More Operations on Radicals 76 Chapter 1. Equations and Inequalities Linear Equations and Rational Equations 100 Applications and Modeling with Linear Equations 113 Complex Numbers 125 Quadratic Equations 135 Problem Recognition Exercises: Simplifying Expressions Versus Solving Equations 148 Applications of Quadratic Equations 148 More Equations and Applications 158 Linear Inequalities and Compound Inequalities 169 Absolute Value Equations and Inequalities 179 Problem Recognition Exercises: Recognizing and Solving Equations and Inequalities 187 Chapter 2. One contains all the information, one has just Limits information, one has just Derivatives information and the final one has just Integrals information. Chapter R. There are four different cheat sheets here. Functions and Graphs 2.1 The Rectangular Coordinate System and Graphing Utilities 196 2.2 Circles 208 2.3 Functions and Relations 214 2.4 Linear Equations in Two Variables and Linear Functions 228 2.5 Applications of Linear Equations and Modeling 244 Problem Recognition Exercises: Comparing Graphs of Equations 261 2.6 Transformations of Graphs 262 2.7 Analyzing Graphs of Functions and Piecewise-Defined Functions 275 2.8 Algebra of Functions and Function Composition 295 Chapter 3. In particular it is assumed that the exponents and factoring sections will be more of a review for you. Student Code of Conduct: Proper classroom decorum should be observed. 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). For more info, visit the Academic Achievement Center. Cheat Sheets & Tables Algebra Cheat Sheets - This is as many common algebra facts, properties, formulas, and functions that I could think of. However, only one of the five sections that I've given here directly addresses the topic of Calculus. Systems of Equations and Inequalities 5.1 Systems of Linear Equations in Two Variables and Applications 522 Syllabus (Download PDF) Prerequisites: PL1 or C or T or better in Math D004 Intermediate Algebra with Pre-Algebra or D005 Intermediate Algebra. An e-book version comes standard with the software package ALEKS that we use in the course. Academic Misconduct: Proper classroom decorum should be observed. The assumptions about your background that I've made are given with each description below. Functions and Graphs (14) The Rectangular Coordinate System and Graphing Utilities; Circles; Functions and Relations; Linear Equations in Two Variables and Linear Functions; Applications of Linear Equations and Modeling; Problem Recognition Exercises: Comparing Graphs of Equations; Transformations of Graphs; Analyzing Graphs of Functions and Piecewise-Defined Functions; Algebra of Functions and Function Composition Chapter 3. I'd like to thank Shane F, Fred J., Mike K. As time permits I will be adding more sections as well. Any cheating on exams will result in failure in the class and be reported to the Office of Community Standards and Student Responsibility, which may impose additional sanctions. Surface Integrals - Parametric Surfaces, Surface Integrals, Surface Integrals of Vector Fields, Stokes' Theorem, Divergence Theorem. 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. Series Solutions - Series Solutions, Euler Differential Equations. I've mostly covered topics that are of particular importance to students in a Calculus class. Exponential and Logarithm Functions - Exponential Functions, Logarithm Functions, Solving Exponential Functions, Solving Logarithm Functions, Applications. Attendance and participation in class will improve your understanding of the material. 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. Each cheat sheets comes in two versions. 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. Second Order Differential Equations - Homogeneous and Nonhomogeneous Second Order Differential Equations, Fundamental Set of Solutions, Undetermined Coefficients, Variation of Parameters, Mechanical Vibrations Laplace Transforms - Definition, Inverse Transforms, Step Functions, Heaviside Functions, Dirac-Delta Function, Solving IVP's, Nonhomogeneous IVP, Nonconstant Coefficient IVP, Convolution Integral. These notes assume no prior knowledge of Calculus. 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. Fred, Mike and David have caught quite a few typos that I'd missed and been nice enough to send them my way. Please note that calculators or cell phones are not to be used during class/exam. It also assumes that the reader has a good knowledge of several Calculus II topics including some integration techniques, parametric equations, vectors, and knowledge of three dimensional space. Parametric Equations and Polar Coordinates - Parametric Equations & Curves, Calculus with Parametric Equations (Tangents, Areas, Arc Length and Surface Area), Polar Coordinates, Calculus with Polar Coordinates (Tangents, Areas, Arc Length and Surface Area). 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. 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. A good grasp of Calculus is required however. Applications of Integrals - Arc Length, Surface Area, Center of Mass/Centroid, Hydrostatic Pressure and Force, Probability. Also included are reminders on several integration techniques. and David A. Welcome to my online math tutorials and notes. If your symptoms persist, please ask your parents to take you home or to seek assistance from Student Health Services so that you can be cared for in a setting that does not put others at risk.” Please notify me through email (boczko@ohio.edu) so that attendance as well as grading policy may be adjusted. Learning Objectives Develop mathematical thinking and communication skills; increase quantitative and logical reasoning abilities needed for informed citizenship and in the workplace; strengthen quantitative and mathematical abilities that will be useful in the study of other disciplines. Common Graphs - Parabolas, Ellipses, Hyperbolas, Absolute Value, Square Root, Constant Function, Rational Functions, Shifts, Reflections, Symmetry. For info on Supplemental Instruction visit www.ohio.edu/si. Final exam COMBINED-SECTION EXAMINATION, TBA. 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. Students should check their Blackboard for the course code. 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. It it still geared mostly towards Calculus students with occasional comments on how a topic will be used in a Calculus class. Note that this primer does assume that you've at least seen some complex numbers prior to reading. Failure to do so will result in removal from theclass. However, anyone needing a review of some of the basic algebra, trig, exponential functions and logarithms should find the information of use. Boundary Value Problems & Fourier Series - Boundary Value Problems, Eigenvalues and Eigenfunctions, Orthogonal Functions, Fourier Sine Series, Fourier Cosine Series, Fourier Series. Please note that Final exam rooms may or may not be the same as your classrooms. Help Sessions: SI sessions as well as math tutoring will be provided free of cost on certain evenings as well as during the day. 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. 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. These downloadable versions are in pdf format. 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. The other four sections are more general errors or cover Algebra and Trig errors. 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. 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. 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. It is also assumed that you have a fairly good knowledge of Trig. 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. This includes a working knowledge of differentiation and integration. You may appeal any sanctions through the grade appeal process. For more details, visit the university's Office of Community Standards and Student Responsibility page. Exponential and Logarithmic Functions 4.1 Inverse Functions 432 4.2 Exponential Functions 444 4.3 Logarithmic Functions 458 Problem Recognition Exercises: Analyzing Functions 473 4.4 Properties of Logarithms 474 4.5 Exponential and Logarithmic Equations 483 4.6 Modeling with Exponential and Logarithmic Functions 497 Chapter 5. Graphing and Functions - Graphing Lines, Circles, and Piecewise Functions, Function Definition, Function Notation, Function Composition, Inverse Functions. 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. Keeping this policy in mind, only the three hourly exams (out of 4) along with the quizzes, homework, and the final exam will be used to determine your grade according to the grade scheme and grade scale given above. Also, it is assumed that you've seen the basics of graphing equations. Due to the nature of the mathematics on this site it is best views in landscape mode. The Calculus I notes/tutorial assume that you've got a working knowledge of Algebra and Trig. Equations and Inequalities (12) Linear Equations and Rational Equations; Applications and Modeling with Linear Equations; Complex Numbers; Quadratic Equations; Problem Recognition Exercises: Simplifying Expressions Versus Solving Equations; Applications of Quadratic Equations; More Equations and Applications; Linear Inequalities and Compound Inequalities; Absolute Value Equations and Inequalities; Problem Recognition Exercises: Recognizing and Solving Equations and Inequalities Chapter 2. 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. 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 course materials are offered as inclusive access. Textbook (Required): College Algebra 2nd Edition, by Miller and Gerken. There are two versions of the cheat sheet available. Polynomial Functions - Dividing Polynomials, Zeroes/Roots of Polynomials, Finding Zeroes of Polynomials, Graphing Polynomials, Partial Fractions. 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. Failure to do so will result in removal from the class. Multiple Integrals - Iterated Integrals, Double Integrals, Double Integrals in Polar Coordinates, Triple Integrals, Triple Integrals in Cylindrical Coordinates, Triple Integrals in Spherical Coordinates, Change of Variables, Surface Area. 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). Not all the topics covered in an Algebra or Trig class are covered in this review. Polynomials and Rational Functions 3.1 Quadratic Functions and Applications 320 3.2 Introduction to Polynomial Functions 333 3.3 Division of Polynomials and the Remainder and Factor Theorems 348 3.4 Zeros of Polynomials 361 3.5 Rational Functions 377 Problem Recognition Exercises: Polynomial and Rational Functions 398–399 3.6 Polynomial and Rational Inequalities 399 Problem Recognition Exercises: Solving Equations and Inequalities 412 3.7 Variation 413 Chapter 4. College credit plus students need to speak with their high school program administrators and contact the bookstore. Material Covered:The purpose of Math 1200 is to refresh college algebra skills required to move on to Calculus, Statistics, and Psychology. These sessions will be announced. Review of Prerequisites Sets and the Real Number Line; Models, Algebraic Expressions, and Properties of Real Numbers; Integer Exponents and Scientific Notation; Rational Exponents and Radicals; Polynomials and Multiplication of Radicals; Problem Recognition Exercises: Simplifying Algebraic Expressions; Factoring; Rational Expressions and More Operations on Radicals Chapter 1. One is full sized and is currently four pages. Special Needs: If you have specific physical, psychiatric, or learning disabilities and require accommodations, please let me know as soon as possible so that your learning needs may be appropriately met. Here is a complete listing of all the subjects that are currently available on this site as well as brief descriptions of each. 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. Systems of Equations and Inequalities (2) Systems of Linear Equations in Two Variables and Applications Topics Chapter R. This portion of the site should be of interest to anyone looking for common math errors. Exponential and Logarithmic Functions (8) Inverse Functions; Exponential Functions; Logarithmic Functions; Problem Recognition Exercises; Analyzing Functions; Properties of Logarithms; Exponential and Logarithmic Equations; Modeling with Exponential and Logarithmic Functions Chapter 5. Table of Laplace Transforms - Here is a list of Laplace transforms for a differential equations class. For more details, visit the Office of Community Standards and Student Responsibility. Exams & Solutions Fall 2019 Previous Exams Spring 2019 Fall 2018 Spring 2018 Exam 4: Solutions Exam 3: Questions Exam 2A: Solutions Fall 2017 Spring 2017 Fall 2016 Spring 2016 Fall 2015 Spring 2015 Exam 1: Solutions Exam 2: Solutions Exam 3: Solutions Exam 4: Solutions Fall 2014 Exam 1: Solutions Exam 2: Solutions Exam 3: Solutions Exam 4: Solutions Spring 2014 Exam 1: Solutions Exam 2: Solutions Exam 3: Solutions Exam 4: Solutions 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). Common Math Errors - As with the Algebra/Trig review this was originally written for my Calculus I class. Learning Objectives: Develop mathematical thinking and communication skills; increase quantitative and logical reasoning abilities needed for informed citizenship and in the workplace; strengthen quantitative and mathematical abilities that will be useful in the study of other disciplines. Later solutions are usually not as detailed, but may contain more/new information as required. 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. Students do not need to purchase a hardcopy textbook unless they wish to. Software: Students will need to use the ALEKS 360 software to complete the course. The work done in class will help you succeed in the course and earn a better grade. “If you experience flu symptoms such as fever, a cough, sore throat, body aches, headache, chills or fatigue, please don't come to class. If you aren't in a Calculus class or haven't taken Calculus you should just ignore the last section. Homework may be collected and quizzes given at the discretion of the instructor. These notes assume no prior knowledge of differential equations. Several topics rely heavily on trig and knowledge of trig functions. Grade Scheme: Weights: Earning and Distribution of Points Component and Points In class: 8 x 25 = 200 Exam: 6 x 100 = 500, ALEKS: 1 x 500 = 500 Final: 1 x 200 = 200 Total Points: 1400 A 90% and above A- 85%-89.9% B+ 80%-84.9% B 75%-79.9% B- 70%-74.9% C+ 65%-69.9% C 60%-64.9% C- 55%-59.9% D+ 50%-54.9% D 45%-49.9% D- 40%-44.9% F Below 40 Makeup exams are not allowed unless there is an extenuating circumstance. Students missing an exam due to a university excused absence (e.g., student athletes) will be offered make-up exam(s); documentation must be provided to show that the exam was missed due to a university excused absence. 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. The Algebra notes/tutorial assume that you've had some exposure to the basics of Algebra. 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. Higher Order Differential Equations - nth order differential equations, Undetermined Coefficients, Variation of Parameters, 3 x 3 Systems of Differential Equations. here are two versions of the cheat sheet available. Complex Number Primer - This is a brief introduction to some of the basic ideas involved with Complex Numbers. Systems of Differential Equations - Matrix Form, Eigenvalues/Eigenvectors, Phase Plane, Nonhomogeneous Systems, Laplace Transforms. A unit circle (completely filled out) is also included. One that is full sized and another that has been reduced, with exactly the same information as the full sized version, that prints two pages on the front and/or back of each page of paper. Polynomials and Rational Functions (12) Quadratic Functions and Applications; Introduction to Polynomial Functions; Division of Polynomials and the Remainder and Factor Theorems; Zeros of Polynomials; Rational Functions; Problem Recognition Exercises: Polynomial and Rational Functions; Polynomial and Rational Inequalities; Problem Recognition Exercises: Solving Equations and Inequalities; Variation Chapter 4. Systems of Equations - Substitution Method, Elimination Method, Augmented Matrix, Nonlinear Systems. I've also got a couple of Review/Extras available as well. ISBN 978-1-259-57046-9. Reviews & Extras Algebra/Trig Review - This is an Algebra Review and Trig Review that was originally written for my Calculus I students. The Calculus III notes/tutorial assume that you've got a working knowledge Calculus I, including limits, derivatives and integration. Attendance/Class Participation: Attendance on a regular basis is vital to your success in the course.

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