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If you are seeing this message, it means that we are having trouble carrying external resources on our site. If you are on a web filter, make sure the domains \*.kastatic.org and \*.kasandbox.org are unlocked. Show Mother Warning Show all notes hide all notes Mother Warning you seem to be on a device with a screen width à € œls € (ie you are probably on a cell phone). Due to the nature of mathematics on this site, it is better views in landscape mode. If your device is not in the landscape mode many of the equations will be performed outside your device (should be able to roll to vain) and some of the menu items will be cut due to width narrow screen. Welcome to my tutorials and online mathematical notes. The interaction of this site is to provide a complete set of online grades (and for download) and / or free tutorials for the classes I teach at the University of Lamar. I tried to write the notes / tutorials in such a way that they should be accessible to anyone who wants to learn the subject, regardless of whether you are in my classes or not. In other words, they do not assume that you have any knowledge for the standard set of material for this class. In other words, it is supposed that you know the lgebra and triger before reading the notes of the calculation I, know the calculation I before reading the grades of the culice II, etc. The assumptions about your background that I made are given with each describing below. I would like to thank Shane F, Fred J., Mike K. and David A. for all the errors of digitations they found and sent me! I tried proof of reading these pages and getting as many mistakes as I could, however, it simply is not possible to take them all when you also the person who wrote the material. Fred, Mike and David have taken some digit errors that I had lost and was good enough they'll send them on my way. Thanks again Fred, Mike and David! If you're not one of my current students and you're here looking for homework I have a set of links links It will take you to the right pages listed here. Currently, I have received notes/tutorials from my Algebra (Math 1314), Calculus I (Math 2413), Calculus II (Math 2414), Calculus III (Math 3435) and Class (Math 3301) online. I also have some µ/extra reviews available. Among the µ/extra reviews I have, there is an algebra/TRIG revision for my calculus students, a complex primer, a set of common math errors and some tips on how to study mathematics. I also made most of the pages on this site available for download. These µ are in PDF format. Every subject on this site is available as a complete download and, in the case of very large documents, I also divided them into smaller parts that correspond mainly to each of the individual<sup>3</sup>. To get the downloadable version of any<sup>3</sup>, navigate to this<sup>3</sup> and from the download menu you will not receive a download to download the<sup>3</sup>. Here is a complete list of all the subjects that are currently available on this site, as well as µ brief descriptions of each. Cheat Sheets and Algebra Cheat Sheets tables - there are so many common facts, properties,<sup>3</sup> and fun µ I could think of. There is also a Page of common Algebra errors included. There are two versions µ the toolsheet available. A full-size and currently has four pages. The other version is a reduced version containing exactly the same information as the full version, except that it has just been shrunk, so there are two pages printed on the front and two pages printed on the back of a single piece of paper. The other version is a small version containing exactly the same information µ that the complete version is, except that it has just been shrunk. TRIG - Here is a set of common facts, properties and<sup>3</sup>. A unit circle (fully filled) is also included. There are two versions µ the toolsheet available. A full-size and currently has four pages. The other version is a reduced version that contains the same information as the full version, except that it has just been shrunk lacitiARP ed sameIborP] jatoN] j4131 acitiAmetamI arbeglA .merajesed es merasu seroturtsmi so arap jatsospser/sepAsAulos mest ofAsAubirita ed sameIborp ed otnujnoc mu omoc meb .acitiARp a arap rasu edop \*Acov euq jsepjAsAulos moc( acitiARp ed sameIborp mAR .siaicnerefid sepjAsAAuqE sad ofAsAAexce moc .sessalc sa sadot sadartne sad samuqla erbos soteafsepjAsAAamrofni samuqla adnuqes a e ecalpaL ed sepjAsAAamrofsnart sa anigiAP ariemirp a odnes .sanigiAP saud met .etnemlauta .sadasu etnemumoc ecalpaL ed sepjAsAAamrofsnart e salumAR sad satium iAd alebat atsE .siaicnerefid sepjAsAAuqE ed essalc amu arap ecalpaL ed sepjAsAAamrofsnart ed atsil amu iARtse iuqA - ecalpaL ed sepjAsAAamrofsnart ed alebaT .lepap ed ahlof acinAR amu ed siARt ed etrap an sanigiAP saud e etnerf an sasserpmi ofAs sanigiAP saud ofARne .oxiab arap adihlocne res ed ubocaa euq otexce .atelpmoc ofAsrev a euq sepjAsAAamrofni samsem sa etnemataxe mARtnoc euq adizuder ofAsrev amu AR ofAsrev artuo A .sanigiAP ortauq met etnemlauta e otelpmoc ohnamat o met mU .sievAnopsid eduarf ed ahlof ad sepAsrev saud ofARtse iuqA .ofAsAAargetni ed sacincAR sairiv erbos seterbmel sodAulcni ofARtse mARBmaT .II olucliAR uo I olucliAR ed essalc amu me etnemraluger ocoop mu sadasu ofAs euq siargetni e snuoc sadavired ed otnujnoc mu iARtse iuqA - siargetni e snuoc sadavireD .lepap ed anigiAP adac ed siARt ed etrap an uo/e etnerf an sanigiAP saud emirpmi euq .otelpmoc ohnamat ed ofAsrev a euq sepjAsAAamrofni samsem sa etnemataxe moc .adizuder iof euq artuo e otelpmoc ohnamat ed AR euq amU .sepAsrev saud me mev asAAapart ed ahlof adaC .siargetni ed ofAsAAamrofni sanepa met amitAR a e sodavireD ed ofAsAAamrofni sanepa met amu .setimil ed ofAsAAamrofni sanepa met amu .ofAsAAamrofni a adot mARtnoc amU .juqa setnerefid sahlof ortauq iAH .II olucliAR ed osruc mu ed socipARt snugla e I olucliAR ed ofARdap osruc mu ed airoiam a egnarba euq olucliAR taehC ed sahloF ed eirAR amu ofAs satsE - olucliAR taehC ed sahloF .lepap ed ahlof acinAR amu ed siARt ed etrap an sasserpmi ofAs sanigiAP saud sa e etnerf ad sasserpmi ofAs sanigiAP sa of attribution] - The tanks included in this set of notes/tutorial are: preliminary - Exponent properties, rational exponents, negative negative Radicals, polynas, factorial, rational expressions, complex men that resolve equals and inequalities - linear equations, quadratic equations, completing the quadratic, quadratic, application fammula Linear and quadratic equations, reducable to quadratic form, equations with radicals, linear, polynomial and polynomial inequalities and rational inequalities, equals of absolute value and inequalities. Functions of grain and functions - grain lines, parts and functions by parts, default of function, formation of function, composition f o Function, inverse functions, Common Gramifics - Parabolas, Ellipses, Hyperbolas, Absolute Value, Square Root, Constant Function, Rational Functions, Change, Reflections, Symmetry, Polynomial Functions - dividing polynas, zeros/stuff of polynas, finding zeros of polynas, grain polynas, partial fractions. Exponential Functions and Logarithm - Exponential Functions, Logarithm Functions, Solving Exponential Functions, Solving Logarithm Functions, Applications. Equals Systems - Mother of Substitution, Mother, Matrix Systems, Increased Matrix. The notes of a lgebra/tutorial assume that you have had any exposure to the basic of the A nalgebra. In particular, it is supposed that the exponents and sections of factories are another review for you. In addition, it is supposed that you have seen the basic of the grain equations. The grain of specific types of equations is extensively addressed in the notes, however, it is supposed to understand the coordinate system and how to plot points. CLACLE I (MATH 2413) [NOTES] [PRORTIC PROBLEMS] [Problems of attribution] - The tans included in this set of notes/tutorial SA E o: Algebra/Trig Review - Functions and TRIG EQUATIONS, EXPORTING FUNCTIONS AND EQUATIONS, FUNCTIONS AND EQUATIONS Logarithm. Limits - Concepts, Definition, Computation, Unilateral Limits, Continuity, Limits involving Infinity, L'A HOSPITALS Derived Rule - Definition, etneicouQ etneicouQ .otudorP od argeR .rewoP ed argeR .sadavireD salumARF Chain Rule, Top Order Derivatives, ImplLending Difference, Logarithmic Difference, Trig Funjes Derivatives, Exponential Funjes, Logarithm Funj µ µ \*es, FunA Applies µ Derivatives µ µ Related Rates, CrPoints, Minimum and Maximum Values, Increasing / Decreasing Fun Integrals The notes/tutorial for Calculus I assume that you do not have a working knowledge of and trigonometry. There are some revisions µ some \*peaks of Algebra and Trig, but most of the time it's assumed that you don't have a decent fund in These notes do not assume full knowledge of Calculus. Calculus II (Mathematics 2414) [Notes] [Practical Problems] [Assignment Problems] à The<sup>3</sup> included in this set of notes/tutorial are: Integral, Integral Involving Trig µ µ µ<sup>3</sup>, Integrals impAR for Required Integrals Applies µ Integrals<sup>3</sup> Arch Length, Area of Mass / Center Equation)ParamTM, Polar CoordinatesEquation µ µ Sequences and Sequences Sequences, Health, Convergence/Divergence of Health ARrie, Absolute Series, Integral Test, eirARs, eirARs amu ed rolaV o odnamitsE ziaR ed etset<sup>3</sup> .ofAsAalerE ed etset<sup>3</sup> .adanreTA eirARs ed etset<sup>3</sup> .etimil .ofAsAAarapmOC ed etset<sup>3</sup> .ofAsAAarapmOC ed slargetni ecafrus .ecnegreviD .lruc .meroehT s'neerG .snoitcnuF laintetoP .sdleiF rotceV evitavresnoc .slargetni enil, fo meroehT latnemadnuF .sdleiF rotceV fo slargetni enil, y dna x ot tcepser htiW slargetni enil .htgneL cra ot tcepser htiW slargetni enil .sdleiF rotceV - slargetni enil .aerA ecafrus .selbairav fo egnahC .setavireD lanoitcehPS ni slargetni elpirT .setanidrooC laciridnilyC ni slargetni elpirT .slargetni elpirT .setanidrooC raloP ni slargetni elbuoD .slargetni elbuoD .slargetni detareti - slargetni elpiltuM .sreilpiltuM eqnargAL .noitazimitpO .amertxE etulosbA .amertxE evitaleR .enil lamroN .enalP tnegnAT - sevitivareD laitraP fo snoitacilppA .tneidarG .setavireD lanoitcehPS .elur niahC .slaitnereffid .sevitavireD laitraP redrO rehgiH .sevitavireD laitraP .stimil - sevitivareD laitraP setanidrooC lacirehpS .setanidrooC laciridnilyC .erutavruC .srotceV lamroniB .srotceV lamroN .srotceV tnegnAT .snoitcnuF .lamroN .srotceV tnegnAT .snoitcnuF rotceV fo slargetni dna .sevitavireD .stimil .snoitcnuF rotceV .selbairav elpiltuM fo snoitcnuF .secafrus citardauC .senalP fo snoitauqE .senil fo snoitauqE - metsyS etanidrooC lanoisnemid eerhT : era laivotut/seton fo tes siht ni dedulcni scipoT - JsmelborP tnmnggissA] JsmelborP ecitarP] jsetoN] j5343 htaM( III sulucIaC .snoitcnuF girt fo egdelwonk dna girt no ylivahc yler scipot larevS .girt fo egdelwonk doog yriarf a evah uoy taht demussa osla si ti .)noittuttsibus cisab ot pu( noitargetni dna .sevitavireD .stimil .gnidulcni .I sulucIaC egdelwonk gnikrow a tog ev'uoq taht emussa laivotut/seton II sulucIaC ehT setanidrooC lacirehpS .setanidrooC laciridnilyC .erutavruC .srotceV lamroniB .srotceV lamroN .srotceV tnegnAT .snoitcnuF rotceV fo slargetni dna .sevitavireD .stimil .snoitcnuF rotceV .selbairav elpiltuM fo snoitcnuF .secafrus citardauC .senalP fo snoitauqE .senil fo snoitauqE - metsyS etanidrooC lanoisnemid eerhT tucudorP ssorC .tucudorP toD .citemhira A .rotceV tnuU .edutingaM .scisab - srotceV seireS laimoniB .seireS rolyat .seireS .seireS Supervisions halt ARtricas, superstructure integrals, vector field superstructure integrals, Stokes theorem, divergence theorem. The III notes/tutorial Calculus assumes that you do not have a knowledge of the work of Calculus I, including limits, derivatives and integration. Also, ARm assumes that the reader has a good knowledge of the<sup>3</sup> of the Cycle II peaks, including some integration techniques, equations µ stop, vectors and knowledge of three-dimensional space. Differential µ (Math 3301) [Notes] à<sup>3</sup> Equa µ µ µ 1st Order Differential µ Second Order Differential jesPar µ µ µ µ µ µ Homo and Non-Homo Equation Heaviside, Dirac-Delta Fun, Solving IVPs's, Non HomogAneas IVP, IVP Nonconstant Coefficient IVP, Convolution Integral, µ Differential Equation Systems Matricial Form, Eigenvectors/Eigenvalues, Phase Plan, Non-Homo Systems, Laplace Transformed. Solutions in SAARrie à µ µ SoluAsA Equation µ Differentials Higher Order à µ µ equa Limit Value & Health Problems ARrie of Fourier à Limit Value Problems, Eigenvalues and Eigenficients IVP, Convolution Integral, µ Differential Equation Systems Matricial Form, Eigenvectors/Eigenvalues, Phase Plan, Non-Homo Systems, Laplace Equation, Variable Separation. These notes do not assume knowledge of differential µ. However, a good understanding of Calculus is needed. That weiveR weiveR girt e arbeglA ed ofAsiver amu AR atsE à weiveR girt/arbeglA sartxE & sweiveR .ofAsAAargetni e ofAsAAaicnerefid ed ocitiARp otnemicehnoc mu It was originally written for my students of Circle I. It still mostly turned to calculus students with occasional comments on how a<sup>3</sup> will be used in a Calculus class. However, anyone who needs a review of some of the features plogarithms of Algebra, TRIG, TRIG, must find the information µ use. Not all<sup>3</sup> covered in an Algebra or TRIG class are covered in this review. I mainly addressed<sup>3</sup> that are of particular importance to students in a Calculus class. They include some<sup>3</sup> that are not important for a Calculation class, but students seem to have problems from time to time. As time permits, I will also add more µ. The revision is in the form of a problem defined with the first solution that contains detailed µ on how to work on this type of problem. Subsequent µ are usually not detailed, but may contain more/new information as µ as needed. First of complex numbers - This is a brief introduction to some of the basic idids involved with complex numbers. The<sup>3</sup> peaks addressed are a brief review of arithmetic with no more complexes, the complex conjugate,<sup>3</sup> polar and exponential form, and compute powers and complexes of no more complexes. Note that this primer assumes that you have not at least seen some complex numbers before reading. The purpose of this document is somewhat less than most people see when the first are presented to no complexes in a college Algebra class. Moreover, this document is not intended to be a complete picture of complex numbers, nor do I stop all the concepts involved (this is an entire class per se. Common math errors - as in the Algebra/Trig revision, this was originally written for the class of I. However, only one of the five jes I gave here directly addresses the<sup>3</sup> of the Calculus. The other four are more general errors or covering errors of algebra and triangle. There are some examples of calculations in the first four sections, but All of these cases, I also tried to provide different examples of calculus. This part of the site must be in the interest of anyone looking for common mathematical errors. If you are not in a class of calculation or have not made a track, just ignore the last section. How to study mathematical - this is a small section with some advice on how to better study mathematics. mathematics.



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