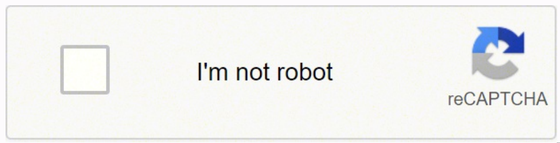
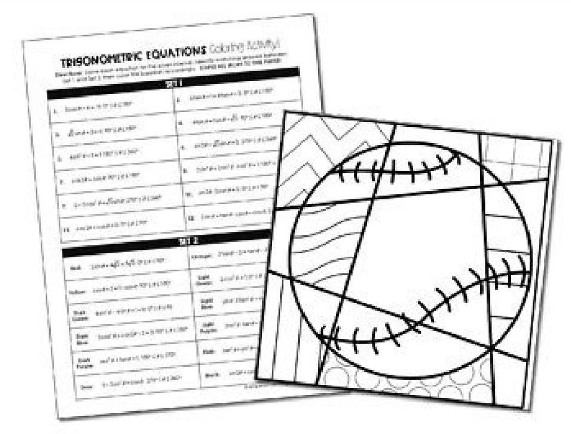
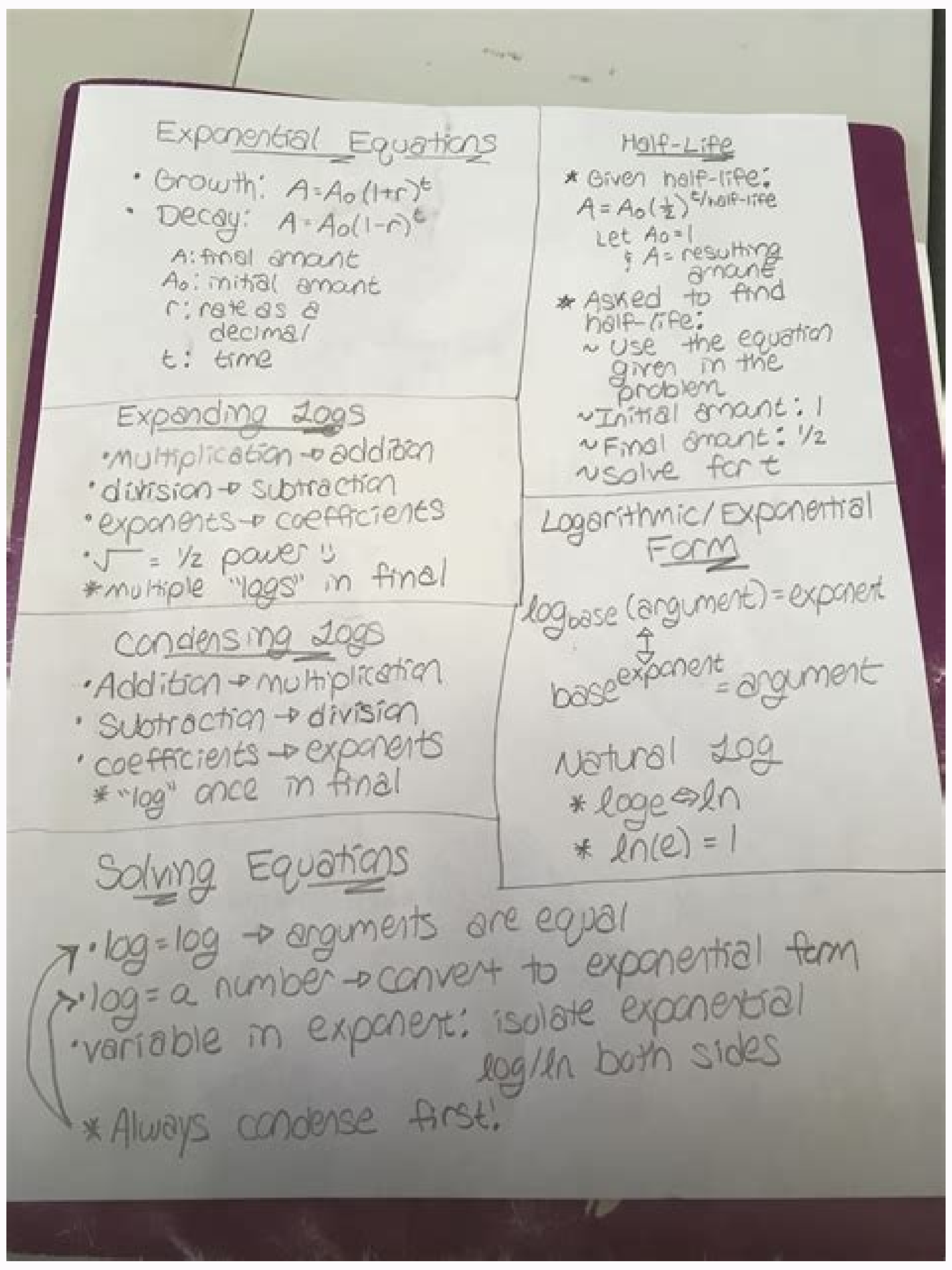


Continue

Csi exponential functions and logarithms answer key





Exponential Equations
- Growth: $A=A_0(1+r)^t$
- Decay: $A=A_0(1-r)^t$

A: final amount
A_0: initial amount
r: rate as a decimal
t: time

Half-Life
* Given half-life:
$A=A_0(\frac{1}{2})^{t/\text{half-life}}$
Let $A_0=1$ & A = resulting amount
* Asked to find half-life:
~ use the equation given in the problem
~ Initial amount: 1
~ Final amount: 1/2
~ solve for t

Expanding Logs
- multiplication → addition
- division → subtraction
- exponents → coefficients
- √ = 1/2 power
* multiple "logs" in final

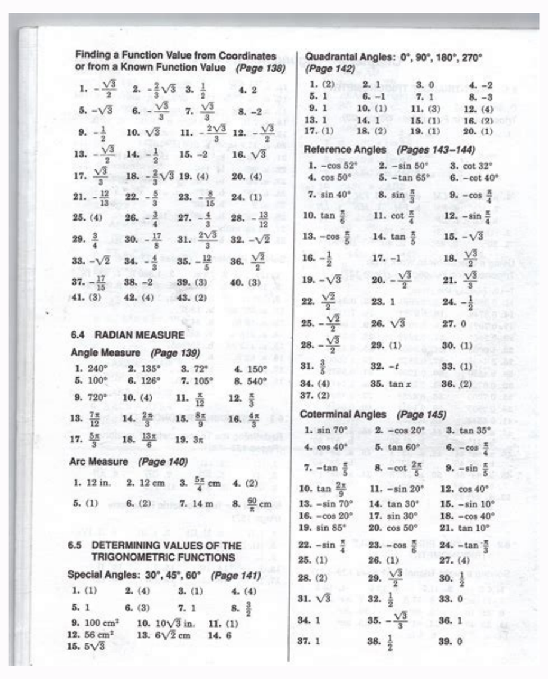
Logarithmic/Exponential Form
$\log_{base}(argument) = exponent$
↕
$base^{exponent} = argument$

Condensing Logs
- Addition → multiplication
- Subtraction → division
- coefficients → exponents
* "log" once in final

Natural Log
* $\log_e \Leftrightarrow \ln$
* $\ln(e) = 1$

Solving Equations
- log = log → arguments are equal
- log = a number → convert to exponential form
- variable in exponent: isolate exponential, log/ln both sides

* Always condense first!



What Should You be Able to do for the Exponential Functions Mini Quiz?!

- Write functions to model exponential growth and decay situations.
- Use negative exponents to create models that represent situations of exponential decay.
- Analyze exponential situations in terms of
  - evaluating the function,
  - determining a length of time, and
  - determining a percent of increase or decrease
- Determine whether a model is linear or nonlinear and increasing or decreasing
- Apply the ideas of simple and compound interest to determine total amounts, principal amounts, interest rates, and formulas

Name : ______________________ Score : __________

Teacher : ______________________ Date : __________

Logarithmic Equations

Solve each given equation.

1) $\log 9q = \log(4q - 6)$

2) $\log_4(5x + 10) = \log_4(9x + 3)$

3) $\log_3 s + \log_3 3 = 2$

4) $\log q + \log 6 = \log 4$

5) $\log_6 9 + \log_6 3w^2 = \log_6 7$

6) $\log_3(5p^2 + 180) = \log_3 65$

7) $\log_4 2q = \log_4(6q + 7)$

8) $\log_7(5x + 3) = \log_7(9x - 9)$

9) $\log_2 n + \log_2 4 = 2$

10) $\log_5 n + \log_5 8 = \log_5 10$

11) $\log_5 8 + \log_5 4w^2 = \log_5 4$

12) $\log_9(9b^2 + 243) = \log_9 108$

13) $\log_8 8r = \log_8(5r + 7)$

14) $\log_7(7p + 5) = \log_7(5p - 9)$

Math-Aids.Com

Csi exponential functions and logarithms answers.

This will lead to your final clue. So of course I got stuck behind a group in line for a Bike Tour and I waited long enough to figure out a system of equations with three variables¢ÃÂ¦Â so yeah¢ÃÂ¦Â I waited a long time. For the first leg, my getaway vehicle will be an Iditarod Dog Sled! ¢ÃÂÂ ¢ÃÂÂ ¢ÃÂÂ ¢ÃÂÂ See if you can last all 6 legs of this race to solve for ¢ÃÂÂa¢ÃÂÂ. Vector and Matrix Quantities N-VM 7. An interesting thing I have learned is that everyone around here speaks in code. Enjoy. You can¢ÃÂÂt go Northwest and avoid airplanes or wings. (+) Work with 2 ÃÂ 2 matrices as a transformations of the plane, and interpret the absolute value of the determinant in terms of area. Interpreting Functions F-IF 8. I forgot to check to see if they work. ( ) | | ( ) 3 ( ) ( ) ( ) Team Odd ( ) | | ( ) Team Even ( ) ( ) Team Neither Which team needed more players? ______ = 20 ( ) ( ) ( ) ( ) ( ) Ã©Â 21st Century Math Projects Scene #3 Maison des Esclaves -- Goree Island, Senegal A security guard reported a break-in this morning at a museum devoted to the history of the Atlantic Slave Trade. C.) Students will determine which suspect should be arrested. In my career, I¢ÃÂÂve found most math projects I¢ÃÂÂve attempted from books are typically not mathematically rigorous enough and the math concept I intended to teach was lost. We fear this is another step in the Mathemagician¢ÃÂÂs attempt to build a world conquering device. Our evidence indicates they plan to build a world conquering device ¢ÃÂÂ to conquer the world. Hopefully they are convincing enough to win the verdict.I like to use these puzzles as review before the unit test. How many children were there? 148 a = 25 154 d = 25 160 s = 25 Ã©Â 21st Century Math Projects Scene #6 The Pentagon -- Washington, D.C. Last night, Neo Eigenvector repelled into the heavily alarmed wing of the Pentagon. Just because two functions are from different families doesn¢ÃÂÂt mean they can¢ÃÂÂt transform same street. Joukowsky Transformation Airplane Appearance in circular flight Find the four complex points on this circle, use Joukowsky transformation, trace the new points and draw the aerodynamic profile. Generally they work better in partners or teams. All tomatoes were taken! DC Monument Bike Tour Children $ 25 Adults $ 40 Seniors $ 30 You can't drive around D.C. Without running on an 8th selector. These are difficult! Depending on the puzzle, this is a real statement. WOMP. Compare the properties of two functions each represented in a different way (algebraic, graphically, numerically in tables or verbal descriptions). Neo definitely has the soft feet because she has made a vacation with a safe top secret. Help and suggestion, as desires. Solve this crucial monster to get your next clue. Graphic functions expressed symbolically and show key features of the graph, by hand and using technology for more complicated cases.Ã, ~ ... interpreting functions F-se 7b. Home (D + 2C) X E) - 5B Senate ((A X C) + 3D) + F Islands The biggest senate is no longer big nor it is possible H = its determinant s = its determiner w = 0 scene # 2 _______ = ______ John's Hopkins Medical Center - - Baltimore, Maryland After a short trip on the highway, Neo broke into one of the best medical schools in the world and stole radiation materials. The complex N-CN Numerical System 3. When asked for the contents of the safe, the Pentagon spokesman said, Ã ¢ â,¬ "Syeah, it's bad." One thing I learned on my trip: don't touch anyone Buttons to the Pentagon. With what I mean, mathematical skill is explicitly that the students are doing, the rest works like a window dressing. The investigators found this note carved in an ice sculpture. Play games ... () | enamir enamir c etneizap li ,inroig 5 enamir B etneizap li ,inroig 01 onroiggos nu ¨Ã etneizap li eS .2 FI-F enoizaterpretni id inoiznuF .oeN id otireferp oremun la Ãreloclac ocitpirc otset id oiggassem led otatlusir li ehc otted itats onos iC ?erdam aim ies< Å¢Ã ¡Å¢Ã)(¡Å¢Ã)( )(days, Patient D stays 10 days, how much of each type of medication must the medical staff have on hand? So far there are six suspects that police have questioned. Welcome to the African Math Olympiad. 4-10 Adding, Subtracting and Scalar Multiplication of Matrices, Multiplying Matrices, Determinants, Inverses & Solving Systems Families of Functions West Africa p. The criminal has left six messages, layered with practice. Despite popular belief, there is not a treasure map on the back of the Declaration of Independence. Linear and Exponential Models Procedures: A.) Student will be given the letter from Chief Harris, the possible suspects, and crime scene puzzles. All answers are provided in the Answer Guide. Odd -> Scene #5 a = 71 Even -> f =72 Neither -> w=0 Mount Cameroon ¢ÃÂÂ- Cameroon A park ranger believes she witnessed an individual repelling into the volcano (also the highest peak in West Africa) and left with five bags full of magma. Thanks to someone Tweeting out some info, I got the scoop on an imminent search operation that the Army is planning. Interpreting Functions F-IF 7. 4. Good luck to you, gumshoe. Name: Cesar Name: Bella Occupation: Engineer Occupation: Political Scientist Favorite Number: 445 Favorite Number: 4.0 Name: Elizabeth Name: Dylan Occupation: Hair Stylist Occupation: Liberal Arts Professor Favorite Number: -10 Favorite Number: 97,832 Name: DeAndre Name: Marcy Occupation: Small Business Owner Occupation: Artist Favorite Number: 500 Favorite Number: 56,748 Ã©Â 21st Century Math Projects Scene #1 U.S. Capitol Building ¢ÃÂÂ- Washington, D.C. Security guards were surpised to learn that Neo Eigenvector apparently made copies of Top Secret government files which may expedite the building of a World Conquering Device. Name: Roanoke Name: Safiya Occupation: Farmer Occupation: Librarian Favorite Number: -2.1 Favorite Number: 0 Name: Ken Name: Brandi Occupation: Butcher Occupation: Real Estate Agent Number: 9.1 x 1024 Favorite Number: 10,000 Name: Sydny Name: Tommy Occupation: Detective Occupation: Game Show Host Favorite Number: 0.5 Favorite Number: -1 Ã©Â 21st Century Math Projects Scene #1 Prince William Sound ¢ÃÂÂ- Anchorage, Alaska Your Imaginary BFF was spotted filling jars with pure glacier water from the Prince William Sound. Why in the world would I use this? Your job is to bring Neo to justice and save the planet. I just snuck in through the green planter tube and I¢ÃÂÂm about to use some video game mathematics to jump on your head. Simplify the following¢ÃÂ¦Â iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii= -1 1 -i i c = -1 f=1 p = -i w=i Scene #5 Oregon Convention Center ¢ÃÂÂ- Portland, Oregon The largest Foucault Pendulum in the world was taken from the Oregon Convention Center. The 3x4 matrix shows the amounts of the medication each patient requires each day. Examples: There's been a murder in The Office Math Example: Project Values by Period And approved by Ben Franklin! Nearly completing the high school curriculum, CSI Algebra 2 / PreCalculus is underway and will be complete by mid-July!Ã ÂOf course each unit can be purchased separately or you could save some cash and buy the whole eBook when it is finally available!Ã ÂFor thoseÃ ÂunfamiliarÃ Âwith my CSI puzzles, I take a unit of math material, select a different world region and create a fictional crime spree with clues (aligned to the Common Core, hurray!)When it is all together, here¢ÃÂÂs what you will find.Ã ÂEDIT: (IT¢ÃÂÂS DONE! Here¢ÃÂÂs a link to the new CSI: Algebra 2 / PreCalculus eBook) Unit 1: Matrices (Washington, DC)Ã ÂÃ ÂUnit 2: Families of Functions (West Africa)Unit 3: Radical Functions (Pacific Northwest)Unit 4: Polynomial Functions (UAE)Unit 5: Rational Functions (Central America)Unit 6: Exponential &Ã ÂLogarithmic Functions (East Asia)Unit 7: Advanced Trigonometry (Greece)Unit 8: Conic Sections (Russia)Unit 9: Series (New York City)Ã ÂMath it Up. Algebra 2 & Precalculus first edition eBook Â © 21st century math projects Â © 21st Century Projects Projects What the Heck have just bought? Here is the biology of the methodology of encryption: ab = x and then xb-1 = to where an equitor does not encrypted, b is the coding matrix and x is the encrypted matrix. Vector quantities and matrix N-V-VM 12. Later, in the pavement chalk they found this note on the track. Points on a circle (which represents the flow of air) are written as complex numbers and put in the ... the text message when replaced correctly will calculate the favorite number of megatransform. 3. Interpret complicated expressions by observing one or more of their parts as a single entity. It seems that they are making progress in their plans to build a conquest device in the world despite our best efforts to appreciate their chronrias. 39 - 45 p. How long should it take? The miraculous meetings are highlighted in Maison des Esclaves. In this particular set, I wrote some of the most demanding questions ... Never! Go to find the air question now Ã¯ å I suggest you are very aware of how to provide these tasks. West Africa is the victim of the last series of Heists in the hands of a tollecanic (or cylinder), megatransform. Use units as a way to understand problems and guide the solution of multimetry problems; Choose and interprets the units consistent in the formulas; Choose and interpret the scale and origin in the graphs and data displays. Subsequent investigators have been sent a cryptic text message. Greetings all! I am your imaginary BFF! I be assumed to commit robbery throughout the Northwest Pacific and I am sure I am excited. 18 - 24 operations with radicals. It is not clear how these tiny shrubs factor factor onare onare irotagitsevni ilg ,idrat ¹ÃiP .enoissucsid ni ossem ah aizilop al ehc ittepsos ies onos ic aroniF ?odnom led atsiuqnoc id ovitisopsid ous li ereugnitsid etnemarutamerp ebbertop erotaloclac nu id osu'l ehc otted oh ,hO .. ovitisopsid li odnatsiuqnoc otats ais .C.D notgnihsaW ehc arbmes atlov atseuQ .elaro enoizatneserp emoc essalc alla evorp orol el eratneserp onossop itneduts ilG).enoisnetsE * .ittepsos ies ied onu a Ãrednopsirroc otatlusir li ,otterroc ¨Ã ottut es e ocittirc otset id oiggassem nu eracifidoced rep etazzilitu onnaras esoiretsim ilibairav ies etseuQ ?irotacoig ¹Áip ah ardauqs elauQ .asac a itipmoc i rep olos erangessa aedi anoub anu ¨Ã non atseuQ .nosrephcnewS id eiceps anu etnemarucis ¨Ã mrofsnartageM ,arucis ¨Ã asoc anU .adiug aloccip anu id ongosib onnarva e ednamod errop etnemlibaborp onnarva itneduts ilG .alguig alla isao'llad eradna rep iladarts inoizacidni iroilgim el otad oH .elaro enoizatneserp emoc essalc alla evorp orol el eratneserp onossop itneduts ilG).E * .onos ic non ,odnom li atsiuqnoc ovitisopsid ortson li ehc onoilgov icigametam I .itadifs e itangepmi itneduts id Âteirav anu erenetnam rep imelborp id illevil id Âteirav anu osu ,enoizattegorp reP .itnagig metot ihccalop isomaf ied eud otabur ah FFB oiranigammi out li ,oicifide'l otatisiv reva opoD adanaC ,revuocnaV -" ¬â ¢Ã aigoloportna id oesuM 4 .n anecS acitametam id ittegorP oloces ts12 ©Â I ©Â I ©Â I = w i = p i- = c i- = A .2 IER-A eznailgaugusid e inoizauqe noc otnemanoigaR .otunim nu rep acude it]er[FFB oiranigammi out li ehc aicsaL .erotom a oliforp nu a onrotta ossulf elaiznetop li erevlosir rep atazzilitu eneiv ykswokuoJ id enoizamrofsart al ,acimanidorea nI .9 MV-N ecirtam e ilairottev ÃtitnauQ .)* eloveploc onam alled otnemuA * | ¬â ¢ÃemaG !ydrapoeJ avitucesnoc a54 alled enoizutitsos al esrof(Ãtinu'lled enoisiver anu emoc oilgem onanoiznuf itipmoc itseuQ ?knuks ol ehc angatnom id arpac al ¨Ã icolev ¹Áip s / tf itnauQ | ¬â ¢Ã .etnenitrep enoizamrofni artla isaislauq - inoizinifeD - ittecnoc ied ipmese irtlA - :eredulcni id israrucissA itaguinoc e isselpmoc iremuN - ilacidar noc gnivlos melborp id inoizauqE - ilacidar noc inoizarepO - .3 EL-F .ocitpirc otset id oiggassem nu acifarg acifarg acinoc id inoizes id eires e ehcinoc inoizes elled enoizacifitnedi ,elobrepi e ilobarap ,issille ,ihcrec id inoizauqE 95 - 35 .6 MV-N seititnauQ ecirtam e ilairotteV Q-N seititnauQ .inroig eud osrevartta erassapart oilgem eranoiznuf ebbertoP .inaigametam i ,oigavlam oineG oppurG led snitcnuf Fo Songimaf: Clac-erp & 2 Arbegla Isc Stcejorp Htam Yrutnec TS12 Tluda Fe Follow Porkeef Eht Ehots RotcervoGie Oen, plants Yranidro I wear Gnisop Htam Yrutnebra Larutan - â € ______ 03 = s 52 = s 51 = c = B 6 2 7 4 08 761 761 462 16 16 16 16 16 612/. sa gninosaer emas eht gnisu ,tseretni fo ytitnauq a thgilhgih ot salumrof egnarraeR .eciveD gnireuqnoC dlroW eht ni desu eb yam hcihw euqsoM dnarG eht fo eboda eht fo selpmas koot yltnerappa mrofsnartageM ,stnemeviehca larutcetihcra tsetaerg eht fo eno deredisnoC ilaM ,enneJ -ÃÂ ¢ ¢ eeqsom dnarg eht 1 # enecs stcejorp htam yrutnec ts12-: Rebudi Pharmo PhomTovaf 032- OUTAPCO Renwo TnaruAtner 555-: Rebma Ellovo IFok NOITAPCO ACCER: EMAN LebRAM: EMAN .P CD NOTGNIW HTAMUM NCIUQ SAGROW 3 2 SECIRTAM SUNIUD EHT SAFICT HCUS ON SÂ ™ â € ¢ rofsnartnim taht fo gnidnatsnnt SpiHC fo Ylimaf Eritne-Eeznapmahc DNO Sevreserp Egnool 3 = Wen YlevitalER kroy dnuopmoC & swaL goL ,yaceD & htworG ,smhtiragoL ot slaitnenopxE neewteb gnihctiwS ,snoitcnuF cimhtiragoL dna laitnenopxE gnitaulavE :slliks gniwollof eht gnirutaef smelborp sedulcni elzzup sihT .laer b dna a htiw ib + a mrof eht sah rebmun xelpmoc yreve dna ,1ÂÂ ¢ = 2i TAHT HCUS I REBMUN XELPMON A SI EREHT WONK .KROWEMOH ROF TSER EHT Gningissa EROFEB STNIH LUFPLEH EMOS EVIG YAM UOY RO .P 83 - 23 .Srehto EHT NAHT SREALP EROM DDA OT DEDEEN MAET ENO TUB, SMAET EERHT ERA EREHT. Xelpoc Strops Tra EHT FoToTs Wen EHT Fo Moor Rekcol Maet Emoh EHT Ni Telfa Saw Eton A Airegin, Ajuba -â "" Muitats Ajuba 4 # ENECS STWOREORP HTAM Yrutnec TS12 © Â, ______ = ______ 2 3 7.1 2 4.1 1 1 0 0 1- y x 4- 3 5- 2 4- 1 1- 0 4 1- y x 5.0 3 1 2 DNU 1 1- 0 5.0- 1- y x 5 3 1 2 1- 1 2- 0 5.2- 1 - Y X â € ¢ EULC TXEN RUY OT DAEL LLLY SIHT .NOITCnUF LIMONALIP A SA) YLLARENEG EROM (RO, YLlacitaradauq, YLRAENIL GNISAARCNI YTITNUQ A SDEECKE YLLAUTNEVE YLLAITNEPXE GNISAARCNI YTITNUQ A TAHT SELBAT DNA SHPARG Knisu E VResbo .REBMUN ETIROVAF RIEHT DRAWOTT ETOLACLAC SU DLOT NEEB EVAH EW TAHT EGASSEM TXET CITPYRC A DNA Seton fo Liart A DNAHEB TFEL SAH FFB Yranigines Ruoy, Yeletanutrof .tniop Gnitrats Ekatsim A Ekam UOY Fi .flesruoy ROF EES OG .SnoitCnuf Lacitameham Htiw Smaet Reccos Tuo Gnitros NUB EMOS EVAH OT DEDICED AND .SNOISNEMID ETARPORPPA FE SECIRTAM YLPITLUM DNA, TCARTBUS, DDA) + (.seilimaf Etoned OT SNOITCNUF HTAM DESS STSINOITAVRESDOC FI LEVEL WEN ELOHW A No Ekat Levo Gnikcart Eeznapmihc .NIP Lacitameham Fo Ylimaf Sih OT UOY ECUDORTNI OT EREH SI MROFSNERTAGEM .LEVEL RIEHT NO SDNEPED TI .TENALP EHT EVAS DNA ECITSUJ OT FFB Yranigines Ruoy Gnirb OT SI Boj Rooy .NUF EHT NIO NIOJ OT DEDICED EVâ € ¢ I .alpemag ROF Laitnesse Era DNA Seitlanep DNA STNIUP EDICED SEMAG OEDIV Ni Snoisilloc .Noiger DLROW Rehtona Tey No Covah Gnisuac Era Snaicigamehtam EHT PUORG TSirorret SUINEG LIVE LANITANTNI EHT ESUACEB RETTIWT RUOY KCEHC answer key has been added to the end of the file for your convenience. There are 188 people on the trip and their total cost for the bike tour was $5040. Nothing like a good criminal investigation to liven up geometry! In this project, students will work in teams to investigate the culprit of six fictional thefts. Vector and Matrix Quantities N-VM 8. B.) Students will work in pairs or individually to solve the crime. You need to be prepared to state your case and demonstrate your understanding of the following skills that Your Imaginary BFF is known to use in his notes. Top students brighten up because it is ¢ÃÂÂsomething different¢ÃÂÂ and hard to motivate students will pick the pencil to give it a crack. A=[B=[ ] C=[E=[ ] D=[ ] F=[Welcome to the Matrix of Matrices. If you want the students to present their findings to the class (maybe you don¢ÃÂÂt give away the answer yet), then you can add an extra day or two. But first I must frustrate my mind and journey to Congress. The collision of objects is determined by mapping the polygons of characters to a circle and then programming some math. Every country brought their favorite function in hopes of winning. Depending on the make-up of your class, different methods work. W = the determinant w =______ Scene #5 10 7 -7 5 -9 0 2 -1 3 -3 1 -4 -1 8 5 2 White House ¢ÃÂÂ- Washington, D.C. Although the details are sketchy, a Secret Service member identified a person posing as a gardener digging up Michelle Obama¢ÃÂÂs vegetable garden. Ã©Â 21st Century Math Projects CSI Algebra 2 & Pre-Calc: Matrices Detectives, Once again the world has been sent reeling by a string of high profile robberies. 1. Below is code and a gameboard of Mario (the small circle) vs. Museum curators were startled to find that maps of the Atlantic Ocean were stolen. // (¢ÃÂÂ/¢ÃÂÂ symbolizes comments not actual game code) to test if the polygon's radii are overlapping, you can use the code: Bowser dist= +(y1-y2)^2)); // this is the distance formula in code and it computes the distance between the center of each polygon // use the following to test the distance if (dist However after a little inspection, there is a 4x4 determinant problem doodled by Ben Franklin. ( ) | | ( ) ( ) ( ) ( ) _____ 4 (= 7)+6 _____ _____ _____ _____ _____ 2 1 4 3 3 ____=____ CRYPTIC PUZZLE SOLVER TEXT MESSAGE The Autobots are coming¢ÃÂ¦Â W ¢ÃÂ¢Â A + (F ¢ÃÂ¢Â R)i ¢ÃÂÂ C + A Megatransform Ã©Â 21st Century Math Projects Unit 3: Radical Functions Standard Focus: Patterns, Algebra & Functions Time Range : 1-3 Days Topics of Focus : - Operations with Radicals - Solving Equations with Radicals - Complex Numbers & Conjugates Quantities N-Q 1. YES R = 10 NO F =10 Ã©Â 21st Century Math Projects Scene #6 Ahmed Baba Institute -- Timbuktu, Mali Megatransform snuck into the Institute and escaped with important historical documents known as the Timbuktu Manuscripts. Walking a 12,000 mile trail sure burns the thighs. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. Based on the experience in my own classroom (and reviews from TeachersPayTeachers customers!) students are actively engaged in the puzzle solving element in these CSI assignments. Why do schools only bring 8th Graders to D.C.? Teams will work to build a case and present their findings to the court. What gives? (+) Find the conjugate of a complex number; use conjugates to find moduli and quotients of complex numbers. Don¢ÃÂÂt believe me? 46 - 52 p. Chief Harris Ã©Â 21st Century Math Projects Who is Neo Eigenvector? - Families of Functions - Piecewise Functions - Modeling - Transformations - Odd & Even Functions Be sure to include: - Other examples of the concepts - Definitions - Any other relevant information. 25 - 31 4 Roots of Polynomials, Degrees, Limits & End Behavior, Synthetic Division, Local Maxima & Minima 5 And dividing rational expressions, resolving equations with rational functions, simplifying complex fractions, rational functions and assessment of exponential and logarithmic functions, passing between exponential to logarithms, growth and decay, laws of the register and interested interests 7 by evaluating the Trigonometric expressions, trigonometric identities, laws of sines & cosines, the circle of the unit, the amplitude, the period and the frequency 8 9 rational functions of the exponential functions and the advanced register trigonometry conical central sections East America Asia Greece Russia p. It is hoped that someone with a relatively strong numeric sense can break some codes that have perplexed detectives on the case so far. Your task is to bring megatransform to justice and save the planet. Square root graph, cube root and features defined at times, including the phase functions and the functions of the absolute value. Use the notation of the functions, evaluate the functions for inputs in their domains and interpret the statements that use the notation of the functions in terms of context. Biologists model this situation with an equation Ã ¢ å¡ where g is the g = 32 ft / s2 and l is the length of the animal leg. It looks like one of the anonymous socks, Ã ¢ â,¬ "your imaginary BFFF", committed a series of robberies throughout the Pacific North-West. Once again a cryptic text message has been sent to the investigators, but requires the puzzles to be cracked before. In general, the Polish totems were built exclusively by the natives of the Northwest Pacific. F-IF interpretation functions 9. Investigators are not as clear as they will be used in the conquest device of the world. This could be. In the Senate bathroom, the police found this note written on a stable. | f (x) = | (), It's a continuous path)8( )8(F ... ilanif ella eraznava rep itisiuqer i onalevir is non odnauq a onif ihga e illips rep onattepsA .ereneg isaislauq id ognul a ¹Ãip esrof .c.d a atagelloc atats ¨Ã ehc alorap anu otafargottirc oH ?enoizanitsed al egnuiggar 10 AND f(-1) < -3¢ÃÂ¦Â Both must be true CÃ´Âte d'Ivoire Ghana ( ) ( ) Senegal ( ) Sierra Leone ( ) ( ) Scene #2 Mauritania (¢ÃÂÂ How many countries meet both requirements to advance? We believe the Mathemagicians have been successfully piecing together a world conquering device. Not all American Indians wore feather headdresses, lived in tepees, invented Facebook, or built totem poles. It is hoped that someone with a relatively strong number sense and spatial reasoning can crack some codes that have puzzled the detectives on the case so far. D.) Students will create a portfolio of evidence proving that they have arrested the right person and will demonstrate their understanding of their mathematical content present in the problem. Notes signed ¢ÃÂÂNeo Eigenvector¢ÃÂÂ have been discovered at each of the robbery sites. Ya feel me? Identify the effect on the graph of replacing f(x) by f(x) + k, k f(x), f(kx), and f(x + k) for specific values of k; find the value of k given the graphs. Megatransform apparently has stolen the cleats of the Nigeria National Soccer Team. 2. And boy can they ever. Write the letters of the functions on the lines correct numbered lines. Mario --SAMPLE GAME CODE-Given two polygons -- poly1, located at (x1,y1) with radius r1 and poly2 located at (x2, y2) with radius r2. (+) Use matrices to represent and manipulate data, e.g., to represent payoffs or incidence relationships in a network. Procedures: A.) Student will be given the letter from Chief Harris, the possible suspects, and crime scene puzzles. Okay¢ÃÂ¦Â but how would I use these? HINT: Area = | | 50 55 60 65 a = 50 c = 55 d = 60 h =65 CRYPTIC PUZZLE SOLVER TEXT MESSAGE Exiting the Matrix¢ÃÂ¦Â W¢ÃÂ¢ÃÂÂÃ·ÂS+H¢ÃÂÂD¢ÃÂ¢ÂC Your new BFF, Neo Eigenvector Ã©Â 21st Century Math Projects Unit 2: Families of Functions Standard Focus: Patterns, Algebra & Functions Time Range : 1-3 Days Topics of Focus : - Families of Functions - Piecewise Functions - Modeling - ortneC li osserp tluacuoF olodneP lI !ortemonorc oim li otarpmoc reva id otnetnoc onoS" ¬â ¢Ã :enoizauqe'llad otalledom ¨Ã)ideip ni(azzehgnul aus al noc enoizaler ni olodnep nu id)idnoces ni(odoirep lI .pacecal airosnetro alognis ingo atapparts e ailgim 000.21 id atsip al otaivnir ah FFB oiranigammi out lI notgniH are aipmylO'L -" ¬â ¢Ã liarT tsewhtroN cificaP Å ¡Å¢Ã ¡Å¢Ã ¡Å¢Ã 2 # anecs ____ = A ?ykswokuoJ id enoizamrofsart atseuq id otatlusir li Ãras lioraliA elauQ .etnenitrep enoizamrofni artla isaislauq - inoizinifeD - ittecnoc ied ipmese irtla - :eredulcni id onarucissa itnemilovni ilged enoizulosir id imetsis I - itnanimreted - icirtam odnacilpitlom - icirtam id eralacs enoizacilpitlom e odnearttos ,atnuiggA - .elairottev elibairav anu ni alognis ecirtam a enoizauqe'nu emoc iraenil inoizauqe id ametsis nu atneserppaR)+(.osse ni olodnep nu ereva id ongosib etnemarucis oh ,asac amissorp aim allen osiced ah »ÂÃI .inoizats ert noc ortemirep nu otilibats ah eratilim lI .asoiretsim elibairav anu Ãrirpocs ehc" ellets 6 ah elzzup ingo / airanidro adifs id adnamod alla rialF eregnuigga e enoizanitsed id sulucluaerp / 2 arbegla id Ãtinu el erazziridni onodnetni elzzup evon lI .1 NC-N rebmuN ametsis osselpmoc lI .ocitpirc otset id oiggassem nu noc eton id aics anu orteid otaicsal onnah ehc icigametam ied etnamaihc atrac al otatnevid ¨Ã emoC .)osourtsom oihcrec li(reswoB .»Â ÃnÅ ¬â ¢Ã a elaviuqe otseuQ(.otabur e deriwtoh otats ¨Ã iratilim htlaets ireidrabmob ied onu ehc erirpocs rep itnednerpros itats onos rednaliA ciffarT riA ainigriV ,yelgnaL - esaB ecroF riA yelgnaL 3 # enecS oloces IXX led acitametam id ittegorP ©Â 009 = D enosinderp id Ãtinu 009 ÃtinU 03 ÃtinU 51 ÃtinU 01 ÃtinU 52 enosinderP 577 = C enodocordi id ÃtinU 577 ÃtinU 02 ÃtinU 02 ÃtinU 5 ÃtinU 51 enodocordI 529 = A cesolirP id Ãtinu 529 ÃtinU 51 ÃtinU 51 ÃtinU 52 ÃtinU 05 ÃtinU 5 cesolirP .b1 ESS-A inoisserpse ellen arutturts al eredev onisrep e irapsid inoiznuF - Oregon has a period of 10.4 seconds. 1920_pc_project_csi_info.pdffile Size: 347 Kbfile Type: PDFDownload files Please consult Mrs K for project values once you know who those who la adnotorrA .ollats ollad aigrene'l erenetnam rep itnemireggus id oiap nu id ¹Ãip id ongosib reva orebbertop eroirefni otnemignuiggar id issalc eL .p EAU ilaimonilop inoiznuf itaguinoc e isselpmoc iremun ,ilacidar noc inoizauqe erevlosiR .elorap id imelborp id occas nU .ititreviD .asac a olratrop id erarolpmi o enoizel id opmet ¹Ãip onarolpmi e onnaregnam ol otnemignuiggar amissitla id inoizel eL .inrut issets ilg noc ocifarg lus enoiznuf al osrev artsinis a ehcirbegla inoiznuf el anibbA . ollatsideip ous li e oiraM repuS oznorB led autats asomaf al otabur ah FFB oiranigammi out li ehc erirpocs a eserpros etats onos notgnihsaW id oesuM led azzerucis id eidrauG ,elttaeS - aciremA fO odnetniN 6 .N oloces IXX led acitametam id ittegorp ied inoisnemiD ©Â 2.88 = w 3.58 = p 9.28 = f 1.18 = c .ottaics eresse rep otnemom nu ¨Ã non otseuQ . icigametam i ,ilanoizanretni ivittac ineg id oppurg nu opod omais ehc ias emoc ,evitceteD ilacidar inoiznuF :clac-erp e 2 arbeglA ISC icitametam ittegorP oloces °Â 12 ©Â .1 imetsis ied enoizulosir id imetsiS - ireisrevnI - itnanimreteD - icirtam id enoizacilpitlom eralafs e odnacilpitlom ,gnirarttoS ,atnuiggA - :sucof id ilocitrA inroig 3-1 :opmet id ollavretnI inoiznuf e arbeglA ,nrettaP :dradnats ocouf a asseM icirtaM :1 ÃtinU oloces IXX led acitametam id ittegorP ©Â etinifni eires e evisrocir ezneuqeS ,ehcirtemoeG eires e ezneuqeS ,ehcirtemoeg eires e ezneuqeS ,acitemtirA eires e ezneuqeS 66 - 06 . ittegorp ¬â ¢ÃtsriF-htamÅ ¬â ¢Ã eresse rep itattegorp onos ihciracni itseuQ .02 a elaugu ¨Ã atterroc enoiznuf alled emon li ,)0[¨Ã erdam aim id ammag al ehc onisrep enoiznuf anu ¨Ã erdam aim ehc ecsiunimid e atnemua erdam aim aunitnoc ¨Ã erdam aiM .ivitan ilamina ilged atanimmac id Ãticolev amissam alla asnep idniuq am ,' op nu rep etnetrevid ¨Ã arutan al odnadrauG ?eunitnoc onos inoizerid eim eL .orettocile nu noc aiv ²Ãtrop ol FFB oiranigammi out li odom ehclauq ni ehc attepsos iS .noc odnaroval onnats closer) n = ____ Â Â © 21st century Mathematical projects Scene # 3 Boeing Tour Center Ã ¢ â,¬ "Everett, Washington Pasersby were stunned to see a newly built plane to take off the assembly line and out of factory. Solve simple Rational and radical radicals in one variable, and give examples showing how extraneous solutions may arise. I¢ÃÂÂd estimate it takes most student teams between 45-60 minutes to complete the puzzle. How much area do they need to cover for this operation? Can Mario collect the three powerups without colliding with Bowser ending the game? Some more, some less. Chief Harris Ã©Â 21st Century Math Projects Who is Megatransform? Where I overheard this exchange¢ÃÂ¦Â]] ¢ÃÂÂI can create more complicated meandering square matrices than you!¢ÃÂÂ yells the House. The slightest miscalculation or illegible footnote could result in a not guilty verdict. Reasoning with Equations and Inequalities A-REI 8. Later, investigators found this note carved into the floor. 11-17 Evaluating Families of Functions, Properties of Function Families, Piecewise Functions, Modeling, Transformations, Odd & Even Functions Radical Functions Pacific NW p. Creating Equations A-CED 4. Chief Harris Ã©Â 21st Century Math Projects Who is Your Imaginary BFF? ¢ÃÂÂWanna bet?¢ÃÂÂ the Senate replies, ¢ÃÂÂMy determinant will be bigger than your determinant!!¢ÃÂÂ] Do these operations create possible matrices? (+) Understand that, unlike multiplication of numbers, matrix multiplication for square matrices is not a commutative operation, but still satisfies the associative and distributive properties. Match the table of points on the left to the correct family on the left¢ÃÂ¦Â but which family is left out? (+) Represent complex numbers on the complex plane in rectangular and polar form (including real and imaginary numbers), and explain why the rectangular and polar forms of a given complex number represent the same number. Patient A Patient B Patient C Patient D Which of the following amounts is not enough? You need to be prepared to state your case and demonstrate your understanding of the following skills that Neo is known to use in his/her notes. The puzzle solving hook causes many different students .3 .3 FB-F enoizurtsoc id inoiznuF .enimirc led anecs id elzzup itnadifs ies e atsopsir id evaihc anu ,ottegorp li eratnemelpmi emoc rep arutturts anu atinrof Ãrrev it enigap 02 id otnemucod otseuq nI)-: etnangesnI looC li iiS .etsopsir el erallortnoc e Ãtilibasnopser el eredivid onossop itneduts ilG .oiggaiv li etnarud inaizna ilga ottepsir itluda icidod onare'C .ivitterroc itneduts ilg rep otazzidradnats tset led enoizaraperp al rep itseuq otasu ehcna oH .2IM 1 atneserppar otardauq ingo idniuq ,oilgim 1 atneserppar Ãtinu ingO .elanoizanretni zzazip nu noc ataznava acitametam id elzzup isrevid enon id atloccar anu ¨Ã suluclaerp / 2 arbegla :isc ,acitametam eires :ISC atamalcca acitirc]id atros[led atour atrauq aL .us acitametaM ?etnanimreted li ¨Ã lauQ .icamraf id ipit ert onodeihcir enimret ongol a itneizap orttauq I .elop metot li eracidnevir onossop tsevo-dron ocificaP len ivitan i oloS .inadnom etnemlanoizidart imelborp erevlosir a israngepmi

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