Assignment Sheet for the Textbook for College Algebra

All assignments listed on this assignment sheet include both book assignments and worksheets from the packet.

TO GET CREDIT FOR YOU HOMEWORK YOU MUST:

A. Write the assignment number from this sheet, the page number and the problem numbers from the book assignment on the TOP RIGHT CORNER of your homework paper.

B. Papers clip these assignments together in the order they appear on this sheet.

C. Turn your textbook work in on the day you take your exam. You must put your grade tally sheet on top of this assignment sheet and use these two sheets for the cover sheets.

D. Any assignment that you have completed must be highlighted with a highlighter on this assignment sheet. Do not highlight anything you have not done. Highlighting your assignment sheet will indicate both to you and to me what you have completed on your assignment sheet.

E. All textbook assignments should be correctly completed and graded by you. You have the answers to the assigned problems in the back of your book.

F. Worksheets from the packet have answers on them. You should solve the problems on them showing all work like you do for textbook assignments.

G. You MUST record your score on your grade tally sheet. You get a completion grade for all textbook work. Give yourself 10 points for each completed and corrected regular homework assignment. Record that score on the homework line on your grade tally sheet.

H. Give yourself 20 points for each extra credit assignment that is indicated on your assignment sheet with a ** that you complete. Review Exercises and Practice Test are extra credit assignments and are labeled with **. They should be highlighted in a different color (for example use a yellow
highlighter for completed daily textbook assignments and a pink
highlighter to indicate any **extra credit completed assignments). Record
this on the line for extra credit assignments on your grade tally sheet.

I. **You must show all work to get credit for extra credit assignments.** Review
Exercises and Practice Tests are good things to do to help you to study for
your exam. Be sure you do those because you earn lots of points for doing
them.

J. Do not include daily pop tests from the packet with assignments from this
assignment sheet – daily pop test do not have answers on them – we go
over these in class. Please do not include you daily class notes with
homework.

K. **You should read the material in the textbook that precedes each
homework lesson.** If you have trouble completing your homework, you
should use your study guide to help you, go for free tutoring in the math
tutoring room L245 or L247, go to the learning center for help, see me
during my office hours or work with someone in your group.

L. **All work must be shown on your homework paper.** I will not give you
credit for completing an assignment if you just write the problem and the
answer especially if the problem is complicated and requires several steps.
My philosophy is if I cannot do the problem in my head, I assume you
cannot do it in your head. If the problem is simple and can be done in your
head in one step, then please do it that way.

M. **You may call Mrs. Wagner in her office 209-7369.** I am often in my office
in the evenings after 8:00 PM until 10:00 PM or later Monday through
Wednesday and occasionally on Thursdays. I have a recorder on my
phone in my office. Please leave me a message.

N. It is best to try to reach me by e-mail. I will respond ASAP. My e-mail
address is “judybwagner@hotmail.com” I try to check my e-mail daily.

O. Be sure to re-work and study your daily pop tests and old exams in the
Library to help you to study for your exam.

N. The material that is in chapter one and three in your text book is material
that you are supposed to already know. We will spend the first few class
periods reviewing that material. Because you have so many problems to do for review that are in the packet the textbook problems in Prerequisites Chapter and Chapter 1 (labeled with *) are optional and will be counted as extra credit assignments which you will be given 10 points each for completing. The Chapter Reviews and Chapter Tests (labeled with **) will be counted as 20 points each. To earn the most extra credit points do the Chapter Review and the Chapter Test first. If you find that you do not have a firm grasp of these basic concepts, then you should consider taking one of the classes that precedes this course. The material that is in the Prerequisites Chapter and Chapter 1 in your book is covered in detail in M0312. There are not many days to change classes so make your decision quickly so that you do not lose your money or your time.

Q. You will be expected to do all the assigned textbook assignments Beginning in Chapter 2 - 8. These assignments are graphing assignments, which pertain to the material that is essential to this class. Each regular assignment is worth 10 points and will count against your grade if you do not complete the textbook work.

R. This is a learn to graph class. The purpose of this class is to teach you to learn to recognize equations of different types, graph them, interpret what they are telling you, i.e. You must learn to understand the equations we cover and the graphs they form.

S. You MUST bring your calculator to class everyday.

BASIC CONCEPTS, GENERAL REVIEW, PROPERTIES OF REAL NUMBERS, ADDING, SUBTRACTING, MULTIPLYING, AND DIVIDING
POLYNOMIALS, FACTORING, USING FACTORING TO SIMPLIFY FRACTIONS WHEN ADDING, SUBTRACTING, MULTIPLYING, AND DIVIDING, SIMPLIFYING RADICALS.

1. Telephone 5 people in class and find out 2 interesting things about each person and write it down. Try to find out something about each person as to how you can help each other in this class.

2. * Read and Study Modeling the Real World: P.1 pgs. 3 – 12, be sure to look at the picture and the formulas do #1, 3, 7 pgs. 9 & 10.


4. * Integer Exponents: P.3 # 1 - 65 odds, pg. 29.

5. * Radical Exponents: P.4 # 1 – 65 odds, pgs. 35 & 36.


^**^7. THIS IS A VERY IMPORTANT ASSIGNMENT! IT IS NOT EXTRA CREDIT! YOU MUST DO IT! Dividing Polynomials: 4.2 # 1 - 27 odds, pg. 331.

8. * Factoring P.6-# 1 – 75 odds, pgs. 48 – 49.


10. * Work on your own the Radical Numbers Worksheet: all, page 3 - 7 and page 3 – 8 from your instructional packet (be sure to check your answers on page 3 -8).

11. ** Read & Study Concept Check Prerequisites # 1 – 11 all, pgs. 60 – 61

12. ** Prerequisites Review Exercises # 1 – 89 odds, pgs. 61 & 62.

13. ** Prerequisites Test: # 1 – 8 all, pg. 63.

SOLVING FOR X IN BASIC EQUATIONS: SOLVING FIRST DEGREE (LINEAR) EQUATIONS, QUADRATIC EQUATIONS, CLEARING EXPONENTS, USING A "U" SOLVE EQUATIONS, WORKING WITH COMPLEX NUMBERS, USING FACTORING WITH FRACTIONAL EXPONENTS TO SOLVE EQUATIONS (THE ALGEBRA OF CALCULUS); GRAPHING: INEQUALITIES, ABSOLUTE VALUE INEQUALITIES, RATIONAL INEQUALITIES, QUADRATIC INEQUALITIES. ***Buy graph paper & Bring it to class! We will use it when we begin Chapter 2.

14. * Basic Equations: 1.1 # 1 - 70 odds, # 79 – 90 odds, pgs. 80 – 82.

15. * Quadratic Equations: 1.3 # 1 -60 odds, pg. 105.
17. * Other Types of Equations (Using a "w" or a "u" to solve equations, clearing exponents, working with variables under radicals): 1.5 # 1 – 34 odds, # 40 – 47 odds, # 55 – 61 odds, pg. 122.
18. * Inequalities: (Non linear inequalities, rational inequalities and quadratic inequalities - using critical or extreme values.) 1.6 # 1 - 63 odds, pg. 132 & 133.
20. * Copy and rework on your own the Worksheet on Inequalities: all, pg. 6 - 8 from your instructional packet (be sure to check your answers). Your answers should look exactly like mine. Correctly graph your answer and write your answer in interval notation.
22. ** Chapter 1 Review Exercises: # 1 - 43 odds, and # 53 - 83 odds, pgs. 139 & 140.
23. ** Chapter 1 Test: # 1 - 8 All, pg. 141.
24. Copy the Algebra of Calculus Worksheet from your packet page 7 - 1 through 7 - 3. Write the examples out in your own handwriting. This will help you to learn to do the Algebra of Calculus Worksheet.
25. Algebra of Calculus: P.6 # 77 – 89 odds, pg. 49. And P.7 # 71 – 75 odds, Pg. 59.
27. ** Chapter 4 Test # 2 pg. 375.

Please note Assignment # 1, # 7, # 24, and # 25 above are NOT EXTRA CREDIT ASSIGNMENTS, they are required.

WORD PROBLEMS

28. Recopy the 28 Word Problem Worksheet pages 4 - 2 through 4 – 10 from your packet in your own handwriting. Copy it exactly as it is written. Please turn this in to me as soon as you have copied it. You should study these problems to help you learn to do word problems. This should help you to understand how to set up word problems by yourself. You will have word problems frequently this semester. You should work the following problems using the technique for problem solving you learned from recopying the word problem packet in problem Solving with Modeling with Equations: 1.2 # 1 – 55 odds, pgs. 92 – 95. Include these problems with your homework for the second exam.
29. Applications: 6.2 # 43 – 55 odds, pgs. 475 & 476. Include these problems with your homework for the second exam.

This course begins with the material in Chapters 2 - 8 be sure you do all the textbook assignments for these chapters. They are regular homework assignments and are not considered to be extra credit assignments.

**USING: THE PYTHAGOREAN THEOREM, SLOPE FORMULA, DISTANCE FORMULA, MID POINT FORMULA, LINE FORMULAS; X AND Y INTERCEPTS, GRAPHING: LINES, CIRCLES, SOLVING: SYSTEMS OF EQUATIONS; UNDERSTANDING: DOMAIN, RANGE, FUNCTIONS AND RELATIONS, AND ONE-TO –ONE FUNCTIONS.**

30. The Coordinate Plane: (Pythagorean theorem, distance formula and midpoint formula) 2.1 # 1 - 17 odds, and # 21, 35, 37, 39 pgs. 154 – 156.

31. Graphs of Equations in Two Variables( using a "t" chart, x and y intercepts, symmetry, graphing circles or using a graphing calculator): 2.2 # 1 – 17 odds, use your calculator to help answer # 19 – 43 odds, do # 45 – 75 odds and do # 46, 48, 52, 54, 83, 87.

32. Worksheet on "t" Chart Graphing: page 9 - 9 through 9 - 11, from your Instructional Packet. Please read, study, take notes on the examples and include them with your textbook homework.

33. Circle Worksheet: (6 problems), page 8 - 6 through 8 -7 from your Instructional Packet. Please read, study, take notes on the examples and include them with your textbook homework.

34. Worksheet on Graphing: page 8 - 8 through 8 - 11 from your Instructional Packet. Please read, study, take notes on the examples and include them with your textbook homework.

35. Lines: 2.4 # 1 - 57 odds, and # 50, use your calculator – set the window graph # 65 & # 67, pgs. 189 – 191. It is very important for you to be able to graph and write equations of a line given 2 points on that line, and graph and write the equation of a line given the slope and one point on that line. Be sure that you can do # 19, 27, 31, 35, 47, 50 for your exam. To do # 65 and 67 class project 8.11 will help.

36. ** Concept Check Chapter 2 # 1 – 13 all, pg. 199.

37. ** Chapter 2 Review Exercises # 1 – 27 odds, # 8, 10, 26, # 37 – 43 all, # 51, pgs. 199 – 200.

38. ** Chapter 2 Test # 1 – 5 all, pg. 202.

39. What is a Function: 3.1 # 1 –19 odds, use a calculator to do # 35 – 55.
odds pg. 221.

40. Graphs of Functions: 3.2 Use your calculator to do # 1 – 21 odds, do # 23, 24 & 25 – 35 odds, # 53 – 58 all, pgs. 233 & 234.

41. One-to-One Functions 3.7 # 1 – 15 odds, pg. 286.

42. Domain Study Sheet: page 8 - 28 & 8 - 29 from your Instructional Packet. Please re-work on your own paper and be sure you understand how to do it.

43. ** Concept Check Chapter 3 # 1 – 4 all pg. 289.

44. ** Review Exercises Chapter 3 # 1 – 10, use a calculator to do # 15 - 28 all, pg. 290.


46. Systems of Linear Equations in Several Variables: 6.3 # 15, 17, 19, 23, 25, pg. 484.

47. ** Concept Review Chapter 6 # 1 & 2 pg. 500.

48. ** Review Exercises Chapter 6 # 1 – 14 all, 19, 20, 21 pg. 501.

49. ** Chapter 6 Test # 1, 2, 3, 4, 5, 6, 8 pg. 503.

Exam # 1 covers textbook assignments # 1 - 49. Be sure you have assignments # 1 – 49 ready to turn in excluding assignments # 28 & 29 which are included in exam # 2 homework (there are no word problems on exam # 1).

Remember, your textbook homework is due the day you take your exam. I will grade it while you take your exam. Be sure to follow the correct directions above as to how you should order and highlight your homework.

PARABOLAS, TRANSLATIONS, STEP FUNCTIONS, ABSOLUTE VALUE GRAPHS, OTHER GRAPHS, RATE OF CHANGE, PIECEWISE FUNCTION;

50. Parabola Worksheet: (9 problems) page 9 - 1 through 9 - 4, and Quadratic Function Study Sheet: (2 problems) page 9 - 5 and 9 - 6, from your Instructional Packet. Please read, study, take notes on all the problems on your own graph paper and include them with your textbook homework.

***** Quadratic Function Worksheet: page 9 - 5 & 9 - 6 is very important be sure you know how to do it!!!
51. Parabolas: 8.1 # 1 – 6 all, # 7 – 31 odds, # 37 – 43 all pgs. 581 & 582. (All Quadratic Functions are Parabolas.)
52. Shifted Conics: 8.4 # 5, 6, 7, 8, 13, 14 pg. 610.
53. ** Concept Check Chapter 8 # 1 a – c
54. ** Review Exercises Chapter 8 # 1, 3, 5, 25, 28, 43, 48 pgs. 612 & 613.
55. ** Chapter 8 Test: # 1, 4, 9, 11 pg. 615.
56. Increasing and Decreasing Functions; Average Rate of Change: 3.3 # 1 – 27 odds, # 31, 33, 35, pgs. 244 - 245. Do 3.1 # 29, 31, 33, 33 pg. 221.
57. Transformations of Functions: (translations, shifts, stretching and reflecting of curves.) Use a calculator as needed to do 3.4 # 1 – 47 odds, # 12, 14, 20, 24, 26, 28, 30, 32, 53, 61 – 68 odds, pgs. 255 – 258. **SURE TO DO THIS ASSIGNMENT IT IS ON YOUR EXAM!
58. Maxims and Minima: 3.5 # 1 – 4 all, 5 – 43 odds, # 45 – 48 all, # 49 – 55 odds, pgs. 266 & 267.
59. Study Sheet on Applied Minimum and Maximum Problems: page 9 28 & 9 - 29 from your Instructional Packet. Please read, study, take notes on each example, be sure you understand how to do them and include this with your textbook homework.
60. Piece wise or Step Function Worksheet: page 9 - 20 from your Instructional Packet. Please read, study and take notes on the examples and include them with your homework.
61. Piecewise Functions: 3.2 # 37 – 51 odds, pgs. 233 – 234.
62. ** Concepts Check Chapter 3 # 5 – 10 all, pg. 289.
63. ** Review Exercises Chapter 3 # 29 – 32 all, # 41 – 58 all, pg. 290 & 291.
64. ** Chapter 6 Test # 3 – 7 all, & # 11 pg. 293.

Exam # 2 covers textbook assignments # 1 - 64. Be sure to include textbook assignments # 50 – 64 with your homework. Remember your textbook homework is due the day you take your exam. I will grade it while you take your exam. Be sure to follow the correct directions above as to how you should order and highlight your homework. Be sure to turn in your Exam # 1 Corrections if you have not already done so. Don't forget to include Assignment # 28 & 29 the extra book word problems with your homework. Your 28 recopied word problems from pages 4 - 2 through 4 - 10 are due if you have not already turned them in. Be sure to complete your class projects before you take Exam # 2. They will help you to study for Exam # 2.
USING SYNTHETIC DIVISION, GRAPHING RATIONAL FUNCTIONS, FINDING ASYMPTOTES, HOLES IN GRAPHS, X & Y INTERCEPTS, DOMAIN & RANGE FOR RATIONAL FUNCTIONS.

65. Rational Functions Worksheet: page 10 - 2 through 10 - 5, from your Instructional Packet, all. Please read, study, take notes on all of the examples on your own graph paper and turn in with your textbook homework. You may use a graphing calculator to help you.

66. Rational Functions: 4.5 use a calculator to do# 1 - 59 odds, pg. 369 - 370.

67. ** Chapter 4 Review Concept Check # 12 pg. 373.

68. ** Chapter 4 Review Exercises: # 45 - 54 odds, pg. 374.

69. ** Chapter 4 Test: # 8 pg. 375.

ADDING, SUBTRACTING, MULTIPLYING, DIVIDING, FUNCTIONS; DOING THE COMPOSITION OF FUNCTIONS FoG, GoF, FoF; FINDING THE INVERSE OF FUNCTIONS; GRAPHING: HIGHER ORDER POLYNOMIALS.

70. Functions Worksheet: from your Instructional Packet do page 11 – 6 & 11 - 7, all, (be sure to read, study, take notes on these problems and include them with your textbook homework & be sure to check your work page 11 - 8 & 11 - 9).

71. Combining Functions: 3.6 # 1 - 49 odds, # 12, 24, 26, 28 pg. 275 & 276.

72. One-to-One Functions and Their Inverses: 3.7 # 17 - 65 odds, pgs. 287 & 288.

73. ** Concept Check Chapter 3 # 11, 12, 13 pg. 289

74. ** Chapter 3 Review Exercises: # 59 - 76 all, pg. 292.

75. ** Chapter 3 Test: # 8 - 10 pg. 293.

76. Applied Functions Study Sheet: page 11 - 13 from your Instructional Packet. Please read, study and take notes on the problems and include them with your homework. This will help you to understand how to do applied functions and there will be problems like this on your final!

77. Worksheet on Graphing Higher Order Polynomials: page 12 – 1 through 12 - 3 from your Instructional Packet. Please read, study, take notes on your paper and include them with your textbook homework.

78. Polynomial Function and Their Graphs: 4.1 # 1 - 9 odds, # 11 –16 all, # 17 –28 all, 29 – 47 odds, # 38, 49 – 52 all, # 53 – 75 odds, # 72, 74, 76, 78, pgs. 322 – 324.

79. Dividing Polynomials: 4.2 # 29 – 57 odds, # 56, 58 pgs. 331 & 332
80. Real Zeros of Polynomials: 4.3 # 1 - 55 odds, # 8. # 10 pgs. 341 – 342.
82. ** Chapter 4 Concept Check: # 1 - 11 All, pg. 372.
83. ** Chapter 4 Review Exercises: # 1 - 11 odds, # 23 – 26 all, # 29 – 32 all, 
# 49 – 55 odds, # 56, 57, 58 pg. 373 & 374.
84. ** Chapter 4 Test # 1 – 6 all, # 8 a,b,c pg. 375.

Exam #3 covers textbook assignments 1 - 84. Be sure to include in your textbook homework assignments # 65 - 84. Remember Exam #2 Corrections are due. Don't forget to look in the Library at the old exams.

EXPONENTIAL FUNCTIONS, & LOGARITHMIC FUNCTIONS; USING A CALCULATOR TO EVALUATE LOGS, Ln, & EXPONENTIALS; SOLVING FOR X BY CLEARING EXPONENTS AND MAKING BASES THE SAME; USING PROPERTIES OF LOGARITHMS TO SOLVE FOR THE VARIABLE; SOLVING WORD PROBLEMS USING LOGARITHMS.

**** BRING YOU CALCULATOR TO CLASS!!!!!

85. Exponential and Logarithmic Functions Worksheet: page 13 – 2 through pg. 13 - 4 from your Instructional Packet. Read, study, take notes on all the problems on your own paper and include them in your homework folder. Be sure to check your answers.
86. Worksheet on Graphing Logarithmic, Exponential and Absolute Value Curves: page 13 - 5 through 13 - 8, from your Instructional Packet. Please read, study, take notes on these problems and include them with your textbook homework.
87. Exponential Functions (graphing): 5.1 # 1 – 7 odds, # 9 – 18 all, 19 – 35 odds, 59, 60, 61, # 67 –74 all, pg. 392 - 394.
89. Laws of Logarithms (Properties of logs): 5.3 # 1 - 55 odds, pg. 411 & 412.
90. Exponential and Logarithmic Equations: 5.4 # 1 - 49 odds, # 55 – 61 odds, Applications: # 67 – 72 all, # 75, # 77 pgs. 424 & 425.
91. Modeling with Exponential and Logarithmic Functions (solving 8 word problems): 5.5 # 1 - 11 odds, # 15 – 25 odds, pgs. 438 – 440.
92. ** Chapter 5 Concept Check: # 1 - 12. All, pg. 441.
93. ** Chapter 5 Review Exercises: # 1 - 61 odds, # 81 – 88 all, pg. 441 -
443.
94. ** Chapter 5 Test: # 1 - 8 all, pg. 444.

Exam # 4 covers textbook assignments # 1 - 94. Homework textbook assignments # 85 - 94 should be in your homework folder for this exam. Remember Exam # 3 Corrections are due.

MATRIX: ADDING, SUBTRACTING, MULTIPLYING MATRIX; FINDING DETERMINANTS; USING KRAMER'S RULE; USING GAUSSIAN ELIMINATION; FINDING AN INVERSE MATRIX.

95. Matrix Worksheet: page 14 - 5 & 14 - 6 from your Instructional Packet. Please read, study, take notes on the worksheet and include them in your textbook homework.
96. Matrix and Systems of Linear Equations: 7.1 # 1 - 7 odds, # 15 – 23 odds, # 35, 37 pgs. 526 & 527.
97. The Algebra of Matrix: 7.2 # 1 - 37 odds, pg. 537.
98. Determinants and Kramer's Rule: 7.4 # 1 - 7 odds, find the determinants only for # 15 – 19 odds, # 29 - 37 odds, pg. 560 & 561.
99. **Chapter 7 Review Concept Check: # 1 - 8, 12, pg. 563.
100. **Chapter 7 Review Exercises: # 1 - 9 odds, # 21 – 32 all, find the determinants only for # 41 - 45 odds, do # 53, 55 pgs. 563 - 565.
101. ** Chapter 7 Test: # 4, 5, 7, 8, 9, 10, 15a, 17 pg. 566.

The Post Test and Final Exam will be combined. The post test and final exam covers anything in the course. Be sure to study your post test daily review pop tests. The post-test section of the final covers anything from assignments # 1 - 101. Be sure to bring your last section of homework assignments # 95 - 101 to the final exam. I will grade your homework while you take your final. Be sure to bring your completed packet with you to the final exam to be graded.

Remember, your Exam Corrections for the 4th Exam are due the day you take your final. If you have any other old exams you must turn them in on exam day. Complete all your late work and study for your final!!!! Good Luck and I hope you do well!!!