

## Math 116 - Homework Problems

The homework is optional, but highly suggested. Completing the homework will help you do better on the exams and as an incentive to encourage you, I will allow you to replace your lowest test score with your homework point total if your homework point total is higher than your lowest test score. If your homework point total isn't higher than your lowest test score, then the homework grade will not be counted. The homework can't hurt you, it can only help you.

There are 40 sections of homework worth 80 points. There are 698 problems for an average of about 17.5 problems per section. Some sections will contain more and some will contain less. The problems are usually of medium difficulty. When you see a section that says "all", it is usually because that is a matching section and there's a good chance we'll go through the problems in class.

Work each section of homework and check your answers in the back of the book. Find out where you made mistakes and correct them if you can before computing your grade. The homework is graded based on what is correct when you turn it in, not what is correct the first time you attempt it.

For each section of homework, grade the homework using the answers in the back of the book and find the percent of problems correct. Then award yourself 2, 1, or 0 points based on the percent of problems correct as shown in the table.

Percent Correct	Points
80% - 100%	2
50% - 79%	1
less than 50%	0

[Instructions and a sample section](#) are available on the website.

The correctness of the homework accounts for 80% of the homework grade. The other 20% of the grade is based on my assessment of your homework. There are seven chapters of homework and I will award up to three points per chapter based on whether your homework is exemplary, good, acceptable, or poor. This allows for another 21 points to the existing 80 points for correctness. However, the final homework grade may not exceed 100 points, so you can miss one point during the semester without it hurting your grade.

## Rubric for assessing homework

Category	Description	Points
Exemplary	<ul style="list-style-type: none"><li>• Student's name is on each sheet of paper</li><li>• Section number and assigned problems are listed at the top of the first sheet for that section</li><li>• The percent correct and points awarded for that section are clearly identified at the top of the section</li><li>• Each section starts with a new sheet of paper</li><li>• Handwriting is neat, problems are clearly identified</li><li>• Work is shown when required and can be easily followed</li><li>• Answers are easily located, proper units are used</li><li>• Homework point total sheet is completely filled out (including total) and turned in with homework</li></ul>	3
Good	<ul style="list-style-type: none"><li>• Student's name and the homework section number is on the front page of each section's homework</li><li>• The percent correct and points awarded for that section are clearly identified at the top of the section</li><li>• Handwriting is neat, problems are clearly identified</li><li>• Work is shown when required, but may be disorganized</li><li>• Homework point total sheet is mostly filled out and turned in with homework</li></ul>	2
Acceptable	<ul style="list-style-type: none"><li>• Student's name and the homework section number is on the front page of each section's homework</li><li>• Sections continue below each other instead of starting on a new page</li><li>• Only sporadic work is shown and it appears work was copied from solutions manual</li><li>• Homework point total sheet is attached but not completed</li></ul>	1
Poor	<ul style="list-style-type: none"><li>• Student's name only on first sheet of homework</li><li>• Handwriting is poor, problems are not easily identified</li><li>• Sections continue below each other instead of starting on a new page</li><li>• Only solutions are given and it appears answers were copied from solutions manual or back of book</li><li>• Homework point total sheet is not attached</li></ul>	0

Points will be assigned based on the category that most closely matches your homework.

The maximum that a student can receive for homework is 100 points (even though 101 are possible).

## Math 116 - Homework Problems

This sheet is to be completed and submitted with your homework at the beginning of class on the day of the exams.

All exercises are odd except where noted.

Name : \_\_\_\_\_

Points	Sect	#	Problems
_____	1.1	11	13 - 18 all; 43, 51 - 55; 71
_____	1.2	20	11 - 17; 19 - 21 (part a only); 25 - 41 (find equation only); 51, 69, 89 - 93
_____	1.3	33	1 - 4 all; 13 - 24 all; 29, 33, 37, 43, 47, 49 - 58 all; 83, 87
_____	1.4	23	1 - 4 all; 11 - 16 all; 19, 31, 47, 49 - 56 all; 59, 81
_____	1.5	38	13; 15 - 44 all; 51 - 63
_____	1.6	12	7, 35, 39, 43, 47, 51 - 61, 77
_____	<b>Chapter 1 Total</b>		
_____	2.1	20	15 - 29; 31 - 38 all; 45, 51, 57, 61
_____	2.2	9	5, 11, 23, 29, 33, 39, 47, 57, 71
_____	2.3	14	15, 19, 23, 27, 31, 35, 39, 43, 47, 51, 55, 59, 65, 67
_____	2.4	44	5 - 29; 45 - 77; 83 - 93; 99 - 107; 113, 117, 136
_____	2.5	16	9 - 17; 27 - 33; 37, 39, 43 - 47; 53, 55
_____	<b>Chapter 2 Total</b>		
_____	3.1	14	1 - 8 all; 13, 17, 21, 39, 41, 63
_____	3.2	19	1 - 8 all; 17 - 25; 29, 31, 51, 55, 59, 75
_____	3.3	13	7, 13, 17, 19, 31, 37, 45, 49, 51, 57, 59, 67, 69
_____	3.4	10	1 - 4 all; 27ac, 31ac, 35, 39, 45, 49
_____	3.5	13	7 - 18 all; 39
_____	3.6	6	15, 19, 23, 25, 45, 67
_____	<b>Chapter 3 Total</b>		

Name : \_\_\_\_\_

Points	Sect	#	Problems
_____	1.7	12	21 - 24 all; 41 - 51; 63, 67
_____	4.1	19	1 - 13; 15 - 22 all; 23, 27, 47, 65
_____	4.2	23	1 - 19; 45 - 52 all; 57 - 60 all, 73
_____	4.3	39	9 - 19; 23 - 41; 45 - 61, 67 - 80 all
_____	4.4	31	17 - 35; 37 - 42 all ; 43, 47, 51, 55, 59, 73 - 91
_____	4.5	15	1 - 6 all; 19, 23, 32, 39, 41, 43, 47, 49, 53

\_\_\_\_\_ **Chapter 4 Total**

_____	7.1	28	1, 5, 11, 15, 23, 27, 31, 43, 45, 47, 51, 53, 61, 65, 69 - 82 all
_____	7.2	25	1 - 6 all; 9, 13, 17, 23, 29, 33, 37, 45, 51, 59, 65, 69 - 76 all (only identify type of conic)
_____	7.3	12	1 - 6 all; 9, 13, 17, 21, 35, 49

\_\_\_\_\_ **Chapter 7 Total**

_____	5.1	8	5, 9, 17, 23, 33, 41, 57, 69
_____	5.2	6	7, 11, 15, 25, 31, 67
_____	5.3	16	5, 13, 19, 25, 31, 35, 39, 47 - 51; 53, 57, 65, 79, 83, 113
_____	5.4	17	1 - 13; 23 - 26 all; 27, 35, 41, 47, 55, 79
_____	5.5	21	5, 11, 15, 23 - 26 all; 29, 41, 55, 59, 63, 69, 1 - 13; 47
_____	5.6	6	25, 29, 33, 35, 45, 51
_____	5.7	9	3, 7, 17, 25, 31 - 34 all; 43
_____	5.8	5	3, 11, 19, 23, 31

\_\_\_\_\_ **Chapter 5 Total**

_____	6.1	17	1, 5, 11, 17, 39, 43, 47, 51, 53, 55, 63, 69, 73, 75, 79, 91, 95
_____	6.2	15	1, 5, 9, 13, 17, 21, 23, 25, 31, 39, 53, 57, 61, 67, 77
_____	6.3	18	1, 5, 9, 13, 17, 21, 25, 29, 33, 41, 45, 49, 53, 55, 59, 63, 67, 87
_____	6.4	6	1, 3, 7, 11, 17, 45
_____	6.5	18	1 - 8 all; 19, 31, 33, 37, 43, 45, 61 - 64 all
_____	6.6	6	1, 7 - 10 all; 19 - 22 all; 23, 27, 53

\_\_\_\_\_ **Chapter 6 Total**