MA 180 HOMEWORK ASSIGNMENTS – NEW (5TH) EDITION OF THE BOOK

In order to succeed in the class you need to read the book and do problems **on a daily basis**. Spend <u>at</u> <u>least two hours per day</u> in your math homework. Some homework questions will be answered at the beginning of each class, but I strongly recommend that you go with your questions to the Math Science Center and/or to my office.

Show all work. Keep homework on a binder. Do not use spiral paper.

- Read section
- Read examples
- Solve the "Now Work..(pencil)" problems listed after each example which are similar to the examples
- Assess your understanding by working on the "Are you prepared" and the "Concepts and Vocabulary" sections
- Solve the problems assigned below. If you have difficulty with a certain topic solve more odd numbered problems
- To review, read objectives and think on how to do each type of problem.
- Write formulas on a separate paper and memorize them
- Check the end of each section that contains a great summary, review, and test
- Complete all handouts from the web page

Ch.Se	Textbook Exercises	MathXL
ct		Category
1.1	21, 23, 27, 29, 33, 37, 43, 49, 55, 63, 65, 69, 71, 73, 75, 77, 83, 101, 105,	Homework
	107, 113	
1.2	23, 25, 29, 31, 33, 35, 37, 39, 41, 47, 51, 57, 59, 71	Homework
A.5	43, 51, 63, 67, 71	Homework
A.6	23, 31, 37, 45, 51, 63, 77, 105	Homework
1.3	5,15,29,33	Other
		(Written)
1.5	9, 17, 23, 31, 33, 37, 39, 41, 43, 45, 49	Homework
A.9	69, 71, 73, 79, 93, 95	Homework
	TIME OF REFLECTION:	
	Are you studying at least two hours per day?	
	Are you reading the book?	
	Are you reading the examples of the book and doing the pencil	
	problems suggested after each example?	
	Are you going for help to the math science center?	
	Do you have the phone number of at least one classmate to ask for	
	help when you are doing homework at home?	
	Are you participating in class?	
	Are you asking enough questions in class?	
	Are you visiting my office hours to get help?	
	Are you doing all it takes to succeed in this class and get ready for the	
	next math class?	
2.1	15 17 10 21 27 20 45 51 55 45 71 01 02 05 01 02 102	Homework
2.1	15, 17, 19, 21, 27, 39, 45, 51, 55, 65, 71, 81, 83, 85, 91, 93, 103	Homework
2.2	9, 13, 15, 25, 27, 33	
2.3	11, 13, 15, 17, 19, 21, 29, 45, 53	Homework
2.3	33, 63, 69, 71, 81	Other

		(Written)
2.4	9, 11, 13, 15, 25, 31, 33, 35, 41, 51, 53, 55	Homework
2.5	7,9,11, 13, 15, 17, 19, 21, 23, 25, 27, 31, 33, 35, 37, 45, 47, 49, 51, 53, 55,	Homework
	61, 69	
2.6	3, 5, 7, 15, 23, 25	Homework
	TIME OF REFLECTION:	
	Are you studying at least two hours per day?	
	Are you reading the book?	
	Are you reading the examples of the book and doing the pencil	
	problems suggested after each example?	
	Are you going for help to the math science center?	
	Do you have the phone number of at least one classmate to ask for	
	help when you are doing homework at home?	
	Are you participating in class?	
	Are you asking enough questions in class?	
	Are you visiting my office hours to get help?	
	Are you doing all it takes to succeed in this class and get ready for the next math class?	
	next math class:	
	To refresh your memory, read again the recommendations on how to	
	study which are given at the top of the previous page. Reading the	
	book and the examples is VERY IMPORTANT. Always practice	
	solving the "Now Work" problems (Pencil problems) after reading	
	each example.	
	On a daily basis, use the list of objectives to "think on how to do the	
	problems". This is a great way of getting ready for a test.	
	DO MORE than the suggested problems if you have difficulty with a	
	certain topic.	
2.1	17 10 21 22 27 21 22 20	77 1
3.1	17, 19, 21, 23, 27, 31, 33, 39	Homework
3.2	5, 7, 9, 11, 21	Homework
3.3	11, 13, 15, 17, 19, 21, 29, 35, 39, 43, 45, 79	Homework
3.3	47, 74, 80, 82, 97	Other (Written)
3.4	3, 9, 13, 17, 27	Homework
3.5	5, 9, 13, 23, 25, 35	Homework
4.1	11, 13, 15, 17, 45, 57, 61, 65, 93	Homework
A.3	61, 63, 67, 71	Homework
4.2	13, 21, 23, 25, 31, 37, 43, 45	Homework
4.3	13, 25, 27, 33, 47, 53, 55, 57	Homework
4.4	7, 9, 19, 29, 33, 39, 67, 73	Homework
4.5	11, 19, 21, 27, 39, 55, 63, 67, 75, 77, 85, 87	Homework
4.6	7, 11, 15, 17, 27	Homework
4.6	33, 39, 41, 42 44	Other (Written)

5.1	7, 9, 11, 21, 25, 33, 35, 49, 53, 61, 65, 75	Homework
5.2	11, 13, 15, 17, 19, 27, 31, 35, 41, 45, 49, 63, 71, 73, 75, 83, 89	Homework
5.3	11, 13, 21, 23, 27, 29, 31, 37, 51, 53, 59, 67, 75, 77, 79, 81, 87, 95, 97, 101	Homework
5.mix	5.2 #49; 5.3 #112, 113; 5.4 #133; 5.5 #96; 5.8 #21	Other
		(Written)
5.4	9, 15, 17, 23, 25, 29, 31, 33, 49, 57, 59, 63, 69, 71, 87, 99, 111, 117, 123	Homework
5.5	7, 9, 11, 13, 15, 17, 19, 23, 25, 27, 31, 45, 51, 53, 57, 65, 73, 81, 85	Homework
5.6	11, 13, 21, 31, 41, 53, 63, 71, 75, 85, 87	Homework
5.8	1, 3, 5, 7, 11, 17	Homework
5.8&5.9	Optional Material. Newton's Law Cooling 5.8:13,15,23,27.Logistic Models 5.9: 1,3,5	Homework
5.9	1, 3, 5	Homework
6.1	11, 13, 15, 17, 19, 21, 35, 39, 41, 45, 47, 51, 55, 57	Homework
6.1	Optional Material: Arcs & Speeds. 71, 73, 75, 91, 99, 103, 109	Homework
6.2	11,13,15, 19, 21, 23, 25, 27, 37, 39, 45, 47, 53, 59, 63, 71, 73, 75, 83, 87,	Homework
	91, 105	
6.3	11, 15, 27, 31, 33, 35, 47, 49, 59, 63, 67, 77, 79, 81, 83, 89, 95,	Homework
	101,103,113	
6.4	9, 11, 13, 15, 17, 23, 27, 29, 31, 33, 35, 37, 53, 59, 67, 71, 75, 79, 85, 87,	Homework
	91, 93	
6.5	7, 11, 29, 31, 41, 43	Homework
6.mix	6.2 #120, 121; 6.3 #93; 6.5 # 29, 31; 6.6 # 25, 36	Other
(D)		(Written)
6.Proj	Chapter Project – Tidal Data, p.437	Other
7.1	10 15 15 10 01 00 05 00 05 05 11 10 15 15 10	(Written)
7.1	13, 15, 17, 19, 21, 23, 25, 29, 35, 37, 41, 43, 45, 47, 49	Homework
7.2	9, 13, 15, 21, 27, 31, 39, 41, 57, 67, 69	Homework
7.3	13, 14, 19, 25, 49, 53, 69, 80	Other
7.4	11 17 22 25 27 21 27 20 45 57 72 75 92	(Written)
7.4	11, 17, 23, 25, 27, 31, 37, 39, 45, 57, 73, 75, 83	Homework
7.5	7, 11, 19, 33, 39	Homework
7.7	7, 13, 15, 21, 25, 31, 35, 41, 53	Homework
7.8	21, 23, 33, 35, 41, 47, 59	Homework
8.1	19, 21, 23, 25, 27, 43, 45, 47, 51, 55, 57, 61, 69, 71	Homework
8.2	37, 39, 41, 51, 57	Homework
8.3	33, 35, 37, 45, 51, 53	Homework
8.4	Optional Material –Areas of Triangles- 5, 7, 11, 41	Homework
10.7	Parametric Equations. Series of worksheets (see N. Shaw)	Other

Math 180 - Word Problems Portfolio

Exams will contain word problems. All of the details indicated in this page are taken into consideration when grading your papers. It is your responsibility to show every little detail, as we do in class, in order to get full credit. Many of the assigned problems are similar to the examples worked out in the book.

- Solve one problem per page. (Ok to solve one on the front and one on the back of the page).
- Define the meaning of the variables with symbols and words. Indicate the corresponding units. (For example: y is the cost in dollars, x is the number of refrigerators produced)
- Show all steps in order to get credit.
- Write answers using complete sentences.
- Show a sketch of the situation or function in each case. You don't need to set up a scale. Sketches that are neat and make sense are ok.
- Label the axes with symbols, words and units.
- Neatness is required! Take pride in what you do. This is part of your training as a future professional
- If you use the calculator to graph, what window will show a "complete, meaningful" graph? DO NOT use the zoom-fit window. Many times, it distorts the graph. Exploring the TABLE may help in setting windows.

Chapter 1	Chapter 2
Section 1.1: 108, 110 on page 16	Section 2.1: 94, 102 on page 69
Section 1.4: 116, 120 on page 42	Section 2.2: 31, 41, 42 on page 77
Section 1.5: 51 on page 50	Section 2.3: 68, 70 on page 88
	Section 2.4: 50 on page 98
	Section 2.5: 91 on page 111
	Section 2.6: 22, 25, 26 on page 117
Chapter 3	Chapter 4
Section 3.1: 40, 44, 46, on page 134	Section 4.1: 102 on page 190
Section 3.2: 20 on page 141	Section 4.2: 54 on page 201
Section 3.3: 84 on page 153	Section 4.3: 56, 60, 62 on page 211
Section 3.4: 9, 12, 15, 30 on page 160	Section 4.4: 72 on page 219
Section 3.5: 34, 36 on page 167	
Chapter 5	
Section 5.1: 66, 68, 70, 72 on page 254	
Section 5.2: 88, 90, 94 on page 268	
Section 5.3: 98, 100 on page 282	
Section 5.4: 117, 120, 124. 132 on page 295	
Section 5.6: 98 page 312	
Section 5.8: 6, 10, 12, 14, 24 on page 332	

Math 180 - Portfolio on word problems for TRIGONOMETRY - Chapters 6, 7, 8

Be neat. Write title of problem, problem number, page number and section number. Write functions and define variables. Some problems will be done in more than one section dealing with different types of questions. Practice graphing some of the functions. Label and indicate window values. You must solve one problem per page.

Section 6.2

Rain Gutters: example 8, page 373

Projectile Motion – Projectile fired at an inclination with horizontal: 117-120, page 380

Calculating time to slide down an Inclined Plane: 121, page 380

Calculating time for a trip: 123, page 380

Projectile Motion – Object propelled up an inclined plane: 125, page 381

Section 6.3

Calculating time for a trip: 119, 120, page 394

Section 6.4

Alternating Current Circuits and Generators: 93-96, page 409

Section 6.5

Carrying a Ladder around a corner: 49, page 418

Section 7.5

Projectile Motion – Projectile fired at an inclination with horizontal: Example 4, page 479

Projectile Motion – Object propelled up an inclined plane: 83, page 484

Section 7.7

Projectile Motion – Projectile fired at an inclination with horizontal: 66, page 494

Section 7.8

Constructing a Rain Gutter: 65, page 501, except for part (b)

Projectile Motion – Object propelled up an inclined plane: 66, page 501

Carrying a Ladder around a corner: 68, page 502

Projectile Motion – Projectile fired at an inclination with horizontal: 69, 70, page 502

Chapter 8

Practice all word problems done in class