

Information

Math 130

Professor	Marcello Lucia Office 1S-226, marcello.lucia@csi.cuny.edu http://www.math.csi.cuny.edu/~mlucia/										
Time and Place	Monday: 2:30–4:25pm, 3S-102 Wednesday: 2:30–4:25pm, 3S-102 Office hours: Monday: 4:30–5:20pm and 8:10–9:00pm Wednesday: 4:30–5:20pm.										
Textbook	<i>Stewart, Redlin, Watson</i> , PRECALCULUS, 6TH EDITION, ENHANCED WEBASSIGN EDITION, Cengage Learning (2010) ISBN: 978-1-133-59476-5										
Course Outline	This course aims to learn basic facts about functions, complex numbers and trigonometry.										
Course Grade	The final course grade is determined as follows: <table><tr><td>Homework</td><td>10%</td></tr><tr><td>Quizz</td><td>10%</td></tr><tr><td>First test</td><td>20%</td></tr><tr><td>Second test</td><td>20%</td></tr><tr><td>Final</td><td>40%</td></tr></table> <p><i>First test:</i> October 6 <i>Second Test:</i> November 17 <i>Final:</i> December 17 (to be confirmed) <i>Homework:</i> must be submitted using “Webassign” that can be found on the mathematics Website of CSI. Go to http://www.math.csi.cuny.edu/ and follow the links.</p>	Homework	10%	Quizz	10%	First test	20%	Second test	20%	Final	40%
Homework	10%										
Quizz	10%										
First test	20%										
Second test	20%										
Final	40%										
Integrity policy	Please refer to http://www.cuny.edu/about/info/policies/academic-integrity.pdf										
Cell phone	Let us stay focused on the class ! Thus, cell phone should be switched off.										
Lesson Plans	Below, each lesson corresponds to a one-hour class										

Lesson	Sections	Topics	Homework
1	2.1, 2.2	Functions	49, 54, 56, 58, 60, 62, 64, 37, 38, 45, 46, 50, 78, 81, 82
2	2.3	Analyzing graphs of functions	7, 8, 20, 21, 22, 33, 34, 40, 46, 49
3	1.10	slope as rate of change	67, 71, 74, 75, 76
4	2.4	Average rate of change	8, 11, 17, 20, 22, 27, 30 31
5	2.5	Transformations of functions	5, 6, 8, 10, 17, 18, 27, 28, 38, 40
6	2.5	Transformations of functions	55, 57, 59, 60, 66, 69, 70, 77, 80
7, 8	2.6	Combining functions	10, 14, 16, 20 23, 25, 29, 30, 38, 41, 47, 55, 64
9, 10	2.7	one-to-one functions	14, 18, 28, 31, 48, 54, 76, 85, 89
11	3.1	Quadratic functions	21, 24, 32, 42, 44, 54
12	3.1	Modeling with quadratic functions	66, 69, 71, 72, 73, 74, 76, 78
13, 14	3.2	Polynomial functions	8, 10, 22, 28, 46, 54, 64 72, 74, 75, 76, 78
15	3.5	Complex numbers	8, 14, 19, 28, 38, 46, 54, 58, 64
16	3.6	Fundamental Theorem of Algebra	12, 16, 20, 30, 34, 40, 42, 56
17, 18		Exam 1 (October 6th)	
19, 20			
21, 22	3.7	Rational functions, asymptotes	12, 13 ,16, 28, 30, 32, 48, 56, 64, 85, 87, 88
23	4.2	Exponential functions	12, 13 ,14, 35, 37
24	4.3	Logarithmic functions	12, 18 ,28, 57, 58, 77
25, 26	4.4	Logarithmic expression	36, 44, 51, 53, 61, 68, 71
27, 28	4.5	Exponential and logarithmic equations	22, 24, 26, 32, 83, 48, 50, 54, 72, 73, 79, 81
29, 30	5.1	Unit Circle	14, 18, 20, 24, 25, 28, 30, 40, 44, 58
31, 32	5.2	Trigonometric functions	11, 30, 52, 56, 58, 62, 64, 66, 78, 81
33, 34	5.2	Trigonometric functions	
35, 36	5.3	Sine and cosine functions	18, 24, 26, 30, 33, 36, 42, 44, 48, 80
37, 38	5.4	Tangent function	10, 14, 16, 18, 20, 36, 44, 50
39, 40		Exam 2 (November 17th)	
41, 42	5.5	Inverse of trig functions	9, 10, 33, 34, 35, 36, 41, 42
43, 44	5.6	Modeling harmonic motion	12, 16, 32, 33, 34, 35, 37
45, 46	7.1	Trig identities	3, 7, 11, 15, 18, 23, 25, 26, 31, 33, 37
47, 48	7.2	Addition formulas	4, 8, 12, 18, 20, 33, 34, 55, 57, 59
49, 50	7.3	Double-angle, Product-Sum formula	3, 5, 7, 9, 21, 26, 30, 32, 37, 39, 69, 71
51, 52	7.4	Trigonometric Equations	26, 33, 43, 53, 55, 11, 17, 40, 43, 44
53, 54		REVIEW	
55, 56		Exam preparation (December 15)	