

## **Math 230 - Homework**

This document contains a list of assigned problems for Math 230, Differential Equations. All assigned problems are odd numbered unless otherwise noted.

The problems should be worked out and submitted at the beginning of class on the day of the exam over the corresponding chapter(s). Each homework problem should be worked and then graded by checking the answers in the book. Not all answers will be in the textbook, so you may need to check with the instructor, trust your instincts, or ask other students for the correct answer.

If you miss a problem, go back and figure out why you missed it. It is the number of problems that you had correct when the homework is turned in that determine how many points you get, not the number of problems you got right the first time you attempted it.

I suggest that you copy the original problem down where possible. Also show plenty of work. The work may be useful when working on take home exams.

### **Technology**

Some of the problems involve using technology to work them. In cases like these, you may create an electronic document that contains the answers to your homework. The preferred format for this is a wxMaxima workbook (.wxm file) although you may copy and paste the information into a Word document. Your notebooks should be emailed to the instructor as part of your homework.

### **Grading**

There are 331 problems in 39 sections of homework for an average of about 8.5 problems per section.

Divide the total number of problems you have correct for each chapter by 3 and round to the nearest integer. This gives you a possibility of 111 points, although the maximum you can receive for the homework is 100 points. Therefore, you can miss approximately 38 homework problems and still get 100 points.

**Math 230 - Homework**

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

<b>Pts</b>	<b>Sect</b>	<b>#</b>	<b>Problems</b>
_____	1.1	12	1, 3, 5, 7, 11, 17, 21, 25, 29, 32, 35, 37
_____	1.2	11	1, 5, 9, 13, 17, 21, 25, 35-38 all
_____	1.3	10	1, 5, 7, 9, 13, 15, 17, 21, 23, 27
_____		<b>33</b>	<b>Chapter 1 Total</b>
_____	2.1	9	5, 7, 9, 13, 21, 23, 25, 27, 29
_____	2.2	10	1, 5, 7, 11, 17, 19, 23, 25, 29, 35
_____	2.3	9	1, 5, 9, 13, 17, 21, 25, 29, 33
_____	2.4	12	1, 5, 9, 13, 17, 21, 25, 27, 29, 31, 35, 37
_____	2.5	11	1, 5, 9, 11, 13, 15, 19, 21, 23, 25, 29
_____	2.6	5	1, 3, 5, 9, 11
_____		<b>56</b>	<b>Chapter 2 Total</b>
_____	3.1	9	3, 11, 17, 19, 23, 31, 35, 39, 43
_____	3.2	6	1, 5, 9, 13, 19, 25
_____	3.3	5	5, 9, 11, 13, 15
_____		<b>20</b>	<b>Chapter 3 Total</b>
_____	4.1	11	1, 3, 9, 13, 15, 19, 21, 25, 27, 31, 33
_____	4.2	6	1, 5, 9, 13, 17, 19
_____	4.3	17	1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 43-48 all
_____	4.4	8	3, 7, 13, 17, 23, 29, 35, 39
_____	4.5	14	3, 7, 13, 17, 23, 29, 33, 35, 43, 47, 55, 61, 67, 69
_____	4.6	7	1, 5, 9, 13, 17, 21, 25
_____	4.7	8	1, 7, 13, 19, 21, 27, 31, 35
_____	4.8	6	1, 5, 9, 13, 17, 21
_____	4.9	6	1, 3, 7, 11, 13, 15
_____		<b>83</b>	<b>Chapter 4 Total</b>

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

<b>Pts</b>	<b>Sect</b>	<b>#</b>	<b>Problems</b>
_____	5.1	9	9, 11, 17-20 all; 25, 33, 49
_____	5.2	9	1, 3, 5, 9-19
_____	5.3	4	3, 9, 14, 15
_____		<b>22</b>	<b>Chapter 5 Total</b>
_____	6.1	8	3, 11, 15, 17, 21, 25, 29, 33
_____	6.2	10	1, 5, 9, 11, 13, 15, 19, 23, 27, 31
_____	6.3	8	1, 5, 9, 13, 17, 25, 45, 47
_____		<b>26</b>	<b>Chapter 6 Total</b>
_____	7.1	8	1, 7, 13, 21, 27, 31, 37, 41
_____	7.2	8	3, 11, 17, 23, 27, 33, 35, 39
_____	7.3	19	1, 5, 9, 13, 17, 21, 25, 29, 37, 41, 45, 49-54 all; 57, 67
_____	7.4	12	1, 5, 9, 13, 21, 25, 29, 33, 37, 41, 45, 49
_____	7.5	4	1, 3, 7, 11
_____	7.6	4	1, 5, 9, 15
_____		<b>55</b>	<b>Chapter 7 Total</b>
_____	8.1	5	5, 9, 15, 19, 23
_____	8.2	11	1, 5, 9, 13, 19, 25, 29, 33, 37, 43, 45
_____	8.3	8	1, 5, 9, 13, 17, 21, 25, 29
_____	8.4	6	1, 5, 9, 15, 19, 23
_____		<b>30</b>	<b>Chapter 8 Total</b>
_____	9.1	3	1, 5, 9
_____	9.2	3	3, 7, 11
_____		<b>6</b>	<b>Chapter 9 Total</b>