

TENTATIVE ASSIGNMENTS - 122
Ulmer's SMTH 122 Text: Larson, Edwards 6th ed..

This tentative assignment list gives minimal homework assignments. You may need to work more problems than those assigned here to understand the concepts. Think about each problem you work and try to determine which concepts the solution requires. Just getting an answer is not enough; you need to understand the reasoning behind each solution. If you need to work additional problems to understand the concepts, by all means do so! And remember that you should expect to spend two to three hours working out of class for each hour we spend in class. Also, please note: This is NOT a day-by-day assignment list. We will often cover multiple sections per class period and, occasionally, additional assignments will be made in class. Always read ahead.

<u>Section</u>	<u>Page</u>	<u>Assignments and problem numbers</u>												
0.2	012	24,26,31,43; Runner activity												
0.3	018	30,33.												
0.4	024	16,30,42; Solve $x^2 - x - 6 > 0$; Solve $2x^2 + 4x \leq 30$.												
0.5	032	6,8.												
1.1	9	31,33,34, "Linear Modeling, Part I, ver 2" activity. Prepare the activity for your portfolio.												
[Additional activity assigned in class: Describe an encounter you have had with the concept of slope in the past 24 hours. Specify the independent and dependent variables in your description.]														
1.2	21	14,15,18,19,63,66,70; "Microwave" activity. You will self-grade the activity in class next time.												
1.3	33	2,35,38,84,87; "Cutting a Sandwich" and "Big tire" activities.												
1.4	45	13,14,23,35,36,41,42,65,72,73.												
1.5	58	4,5,6,11,20,22,33,34,37,38,42,49,50,67 (67 is <i>important</i> .)												
1.6	69	1,2,3,4,15,16,17,26,41,42,56; On a separate sheet of paper, prepare a written response to "Take another look", p. 68. Cover the algebra review, pp. 72-3, if you need to.												
2.1	90	5 – 10,14,17,20,23,49-56.												
2.2	102	6,8,10,14,18,30,31,43,58a&c.												
2.3	116	2,9,10,15,16,20,24,32; Find the maximum revenue if price p and demand x have been related historically as follows:												
		<table border="1"> <tr> <td>x:</td> <td>500</td> <td>400</td> <td>200</td> <td>100</td> </tr> <tr> <td>p:</td> <td>.50</td> <td>1.00</td> <td>2.00</td> <td>2.50</td> </tr> </table>	x :	500	400	200	100	p :	.50	1.00	2.00	2.50		
x :	500	400	200	100										
p :	.50	1.00	2.00	2.50										
2.4	128	2,3,5,6,8,9,24,28,31,55,60. Spend some time on 60.												
2.5	138	2,3,9,10,11,12,17,24,31,48,50,56,67.												
2.6	145	1-10,16,17,33,34,36,51-56. Activity: (Prepare this work on a separate sheet to be handed in.) A cubic function representing sales in thousands (y) in year x has had values												
		<table border="1"> <tr> <td>x</td> <td>5</td> <td>8</td> <td>10</td> <td>13</td> <td>14</td> </tr> <tr> <td>y</td> <td>177</td> <td>420</td> <td>638</td> <td>1061</td> <td>1230</td> </tr> </table>	x	5	8	10	13	14	y	177	420	638	1061	1230
x	5	8	10	13	14									
y	177	420	638	1061	1230									
		Find the function representing sales in year x and find the rate of change of sales in year 12.												

***** Test 1 will be given here. *****

<u>Section</u>	<u>Initial Page</u>	<u>Assignments and problem numbers</u>
2.7	152	1-5,13,14,18,25,28 and those from 2.8:
2.8	160	5,6
3.1	179	Prepare these to turn in: 1,2,13-18,29,32.
3.2	189	Prepare these to turn in: 5,6,9,10,35,36,43.
3.3	199	Apply the checklist to find all maxima, minima, inflection points and graph of the functions in problems 9,11,12,13,and 18.
3.5	218	To be turned in: Marginal Take-home Pay (MTP) is the added take-home pay per dollar earned. (a) What is the MTP if you are in the 28% tax bracket? (b) What is MTP if you are in the 35% tax bracket? (c) Is there more economic benefit in earning a dollar or saving a dollar? Explain. Extra credit entries for your portfolio: Work numbers 23 and 35 on page 218 without your calculator. Show all steps.
3.6	230	39,41,43,48,51,54,63.
4.1	263	26,28,35,36,37.
4.2	270	19,20,31-34,40,42,44. Work the “Interested in Credit Cards” activity from the PBI site.” Use may use Excel.
4.3	279	1-4,6,7,9,12,16,17,18,25,26,39. Find $f'(x)$ if (a) $f(x) = 3^{x+1}$ (b) $f(x) = (1.2)^{2x+3}$.
4.4	288	69,70,73,74,85-90.
4.5	296	6-15.
***** Test 2 will be given here. *****		
5.1	326	2,4,11,12,13,15,16,17,31,32; $\int (\frac{2}{x} + 3e^x)dx$.
5.2	335	9,10,12,15,16,21,24,49,50.
5.3	342	2,7,8,12,16,18,20,22,24,44.
5.4	354	17-20,25,31,32,37.
5.5	362	1-9,14; Marginal Cost and Revenue Group Activity

***** Test 3 may be given here. *****