

Do your homework! Learning mathematics is an active process - you cannot succeed just by listening or by watching someone else do problems. Time (at least 2 hours outside of class for every in-class hour) spent on going over your notes, reading your textbook and working exercises will help you clarify ideas and methods and discover points you don't understand. Check your answers. (Answers to the odd-numbered problems are in the back of the book.) While doing your work outside of class, make notes about anything that you are having trouble understanding. Work with a classmate or two. Talk and listen as well as write when you study. Additional problems, such as classroom handouts, will also be assigned frequently. ***If you have difficulty with any homework problems, see me at my office for extra help.***

If you miss a class, go to the course website to learn the current assignment and whether any important announcements were made in class. To get to the website, go to my homepage at www.montgomerycollege.edu/~jriseber/ and click the link for MA 110. ***Be sure to log in at the MA 110 homepage the first time you go to it and if you have been absent.*** Add the MA 110 homepage to your list of bookmarks or favorites, and check the site periodically, especially if you are late or absent.

Please turn over for answers to assigned even-numbered problems

Section	Page	Assignment	Done (✓)
1-3 (a)	p.49	#1, 2, 3, 4, 13, 37, 39, 41	
1-3 (b)		59, 61; Part III on Worksheet: A Mathematical Model	
1.4 (a)	p.65	<p>Do #23 - 27 odd, 35, 37 but do <u>not</u> follow the instructions to find the standard form of each quadratic function. Instead</p> <p>(1) Find the x-coordinate of the vertex by using the formula $x = -\frac{b}{2a}$</p> <p>(2) Find the y-coordinate of the vertex by evaluating f at $x = -\frac{b}{2a}$.</p> <p>(3) Determine the y-intercept algebraically.</p> <p>(4) Choose an appropriate window on your calculator and graph the function.</p> <p><i>You should be able to see the vertex and the x- and y-intercepts.</i></p> <p>(5) Determine the x-intercepts graphically correct to two decimal places.</p> <p>#39, 49 (You can solve #49 graphically instead of algebraically if you wish.), <i>Note: All graphing in Section 1.4 can be done using your calculator.</i></p>	
1.4 (b)		55, 57, 59	
Group Activity 2	bottom of p.76 - p. 77	#A1, A3, B1, B3, C2, C4 <i>Do all graphing with your calculator.</i>	



3.1	p.136	#1 - 11 odd, 19 - 31 odd (Note: The correct answer for #29 is 20.88%; the answer in the back of the book is incorrect), 32, 41, 43	
3.2 (a)	p.148	#1 – 19 odd, 35	
(b)		#18, 25, 26, 27, 29, 33, 37, 41, 43 Hint: Find the APY (effective rate) for the first rate in the problem, 47, 49, 51, 67	
3.3	p.159	#13 - 21 odd, 25, 26, 27, 31, 32, 33, 35	
3.4	p.171	#13, 15, 17, 19, 23, 25, 33, 35, 47, 48	
4.1	p.192	#11 - 23 odd	
5.1 (a)	p.286	#1 – 7 odd, 19, 21, 33, 39, 41, 47	
(b)		53, 54, 57, 58 Note: For #54 and 58, you may set up the problems only; you do <u>not</u> have to graph or find the coordinates of the corner points.	
5.2	p.299	#13, 15, 17, 31 (See 5.1 #53) 33, 35, 41, 43 (See 5.1 #57)	

Answers for even-numbered problems:

3.1/ #32. 4.205%

3.2/ #18 (a) amount = \$2805.10; interest = \$805.10

(b) amount = \$2829.56; interest = \$829.56

(c) amount = \$2835.25; interest = \$835.25

3.2/ #26. (a) \$4730.96 (b) \$3730.33

3.3/ #26. \$84,852.51 3.3/ #32. 45 months

3.4/ #48 18.16%

5.1/ #54. Let x = the number of dining room tables produced in one day and
 y = the number of chairs produced in one day

$$8x + 2y \leq 400$$

$$2x + y \leq 120$$

$$x \geq 0, y \geq 0$$

The corner points are (0,0), (0,120), (40,40) , and (50,0).

5.1/ #58. Let x = the number of ounces of food M and
 y = the number of ounces of food N

$$30x + 10y \geq 360$$

$$10x + 10y \geq 160$$

$$10x + 30y \geq 240$$

$$x \geq 0, y \geq 0$$

The corner points are (0,36), (10, 6), (12,4) , and (24,0).