

Homework is required for this course. You may do some of it on **Enhanced Web Assign (EWA)** and some from your textbook, or you may do all of the assigned problems from your textbook. EWA is an online HW and tutorial system. If you use it and submit HW online, your EWA homework score will count for 8% of your final average if it helps you. In addition, there are numerous assigned problems in the textbook that are not available through EWA. These problems are listed in **bold** in the list below and are also required. If you choose not to use EWA, then all of the assigned problems should be completed by using the textbook.

To get started using EWA,

- Go to webassign.net
- In the “Log In” box on the right, click “Have a class key?”
- For class key, enter montgomerycollege in the first box, 3617 in the second box, and 9492 in the third box.
- You should see that the class is MA 181 Spring 2010 --- Section 32812
Instructor: Joyce Riseberg
Montgomery College
- Click “submit” and then follow the prompts to create a webassign account.

Problems on EWA will correspond to problems in the textbook but they will usually not be exactly the same. You will need a binder or notebook in which to write down your homework problems. You should write the section and problem numbers, the entire problem, and the solution. Difficulties with HW problems, including those that are not in EWA, will be discussed in class. You should also keep in mind that you can 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 181. Add the MA 181 homepage to your list of bookmarks or favorites, and check the site periodically, especially if you are late or absent.

Answers for selected even-numbered exercises are on the other side

Section	Page	Exercises
		Note: Exercises that are in the textbook only are in bold
1.1	p. 23	23, 25, 27, 53, 54, 57, 59
1.2	p. 35	1, 11, 13, 15, 19, 21, 22, 25
2.1	p. 94	1, 3, 4, 5, 6
2.2	p. 102	1, 3, 5, 9, 13, 15, 17, 19, 23, 27
2.3	p. 111	1, 2, 8, 9, 11, 13, 15, 17, 19, 21, 25, 27, 29, 30, 37, 38, 39
2.4	p. 121	1, 3, 5, 7, 9, 11, 15, 17, 19, 23, 31, 33, 35, 41, 43
2.5	p. 132	1, 3, 5, 7, 9, 11, 15, 23, 25, 31, 39, 51
2.6	p. 142	1, 3, 5, 7, 11, 13, 15, 17, , 23, 42, 43ab, 47, 49

OVER →

2.7	p. 155	1, 3, 5, 9, 21, 25, 33, 35, 37, 39
2.8	p. 162	1, 3, 5, 9, 10, 11, 15, 17, 19, 21, 23, 25, 27
3.1	p. 181	3, 5 , 7, 9, 11 13, 15 , 19, 21, 23, 27 , 29, 31, 41 , 45, 49, 51, 53 , 57 (Hint: Start with $f(x) = ax^2 + bx + c$), 65
3.2	p. 188	1, 3, 5, 7, 11, 13, 15, 21, 25, 27, 29, 31, 33, 35 , 41, 43, 45, 47, 49, 51
App. C	p. A 25	11, 12, 29, 31
3.3	p. 195	1, 3, 5, 7, 9 , 19, 21, 23, 27, 31, 33, 35
3.4	p. 205	1, 3, 5, 7, 9, 11 , 13, 17, 19, 21, 23, 29, 37, 41 , 45, 49, 51, 53, 55, 59, 69, 77 , 79, 81, 83
3.5	p. 214	1, 7, 9, 13, 15, 17, 21 , 23, 25, 29, 31, 49, 51
3.6	p. 220	17, 19, 21, 23, 25
3.7	p. 226	1, 3, 7, 11, 13, 19, 21, 25, 27, 29, 31, 33, 37, 39
3.8	p. 237	1, 5, 7, 9, 11, 13, 15, 17, 19, 23, 25
3.9	p. 245	1, 5, 7, 9, 15, 23, 25, 27, 29, 35, 36

Answers for selected even-numbered exercises

1.1/ 54. $P = 2L + 32/L$	2.1/ 4. (a) (i) -2 (ii) -3.090170 (iii) -3.141076 (iv) -3.14587 (v) -2 (vi) -3.090170 (vii) -3.141076 (viii) -3.141587 (b) $-\pi$ (c) $y = -\pi x + \frac{1}{2}\pi$	2.1/ 6. (a) (i) 4.42 m/sec (ii) 5.35 m/sec (iii) 6.094 m/sec (iv) 6.2614 m/sec (v) 6.27814 m/sec (b) 6.28 m/sec
1.2/ 22.(b) $y = 4.8567x - 220.9667$ (c) 265 chirps/min		
2.3/ 38. (a) (i) 2 (ii) -2 (b) No	2.8/ 10. (a) The rate of increase of population is initially very small, then gets larger until it reaches a maximum at about $t = 8$ hours, and decreases toward 0 as the population begins to level off. (b) At $t = 8$ hours (c) concave upward on $(0, 8)$ and concave downward on $(8, 18)$	
2.6/42. $\approx -0.7^\circ F / \text{min}$		
Appendix C/ 12. $\sin \frac{4\pi}{3} = -\frac{\sqrt{3}}{2}$, $\cos \frac{4\pi}{3} = -\frac{1}{2}$, $\tan \frac{4\pi}{3} = \sqrt{3}$ $\csc \frac{4\pi}{3} = -\frac{2}{\sqrt{3}}$, $\sec \frac{4\pi}{3} = -2$, $\cot \frac{4\pi}{3} = \frac{1}{\sqrt{3}}$	3.9/ 36. (a) $g(1.95) \approx -4.15$ $g(2.05) \approx -3.85$ (b) $g'(x)$ is always positive and increasing. Therefore, $g''(x) > 0$ and $g(x)$ is concave upward. This implies the tangent lines are below the graph, so the estimates in part (a) are too small.	