

Lansing Community College
Department of Mathematics and Computer Science
MATH 126 Homework Assignments
(Precalculus: Mathematics for Calculus: Steward, Redlin, Watson, 7th ed.)

Section	Pages	Problems
1.1*	10-12	1, 3, 5, 23, 27, 29, 31, 41, 45, 47, 59, 61, 69, 75, 81, 87, 91 [†] .
1.2*	21-25	17, 39, 41, 43, 47, 49, 51, 53, 59, 63, 67, 69, 73, 77, 79, 81, 83, 85, 91, 101.
1.3*	33-35	19, 25, 39, 43, 47, 57, 59, 61, 67, 71, 75, 77, 79, 81, 85, 93, 95, 109, 111, 119, 121, 135.
1.4*	42-45	2, 5, 6, 11, 13, 19, 27, 33, 35, 43, 45, 55, 59, 65, 69, 71, 73, 75, 81, 85, 91, 97.
1.5*	55-59	19, 31, 35, 45, 55, 61, 67, 73, 77, 85, 89, 97, 101, 103, 107, 113, 119, 129, 132.
1.6**	63-64	1, 5, 7, 11, 15, 19, 23, 29, 35, 39, 45, 47, 49, 53, 55, 57, 59, 61, 63, 69, 85 [†] .
1.7**	75-81	21, 23, 25, 27, 41, 47, 49, 53, 55, 63, 69, 71, 77, 81, 85, 87, 89, 91, 93 [†] .
1.8**	88-91	1, 2, 3, 21, 33, 43, 45, 55, 61, 69, 81, 83, 93, 97, 101, 109, 111, 117, 121, 127, 131 [†]
1.9**	101-106	1, 3, 5, 15, 17, 35, 45, 49, 55, 59, 63, 67, 79, 85, 89, 93, 99, 107, 111, 115, 117.
1.10**	114-116	3, 7, 9, 11, 19, 25, 29, 35, 37, 43, 47, 61, 63, 65, 67, 81, 85, 87, 93, 95.
1.11**	121-122	1, 2, 3, 4, 5, 9, 11, 15, 17, 29, 33, 35, 37, 45, 47.
1.12**	127-130	1, 2, 3, 9, 11, 15, 19, 21, 23, 25, 27, 31, 35, 39, 43, 45, 47, 51, 53, 57.
2.1	155-159	2, 6, 9, 11, 19, 21, 25, 29, 33, 37, 39, 43, 47, 65, 69, 77, 79, 81, 83, 85, 91.
2.2	166-170	3, 4, 9, 19, 29, 35, 39, 45, 49, 51, 53, 61, 69, 71, 75, 77, 81, 83, 85, 87.
2.3	178-182	1, 4, 5, 7, 9, 15, 21, 27, 33, 41, 43, 47, 55, 59, 61, 65, 69.
2.4	187-190	1, 3, 5, 9, 13, 15, 19, 23, 25, 27, 29, 31, 37, 39.
2.5	195-197	1, 3, 4, 7, 11, 17, 21, 27, 29, 31, 35, 37, 41, 43, 45, 49, 51.
2.6	206-210	3, 4, 5, 6, 15, 23, 37, 39, 47, 61, 67, 71, 73, 85, 87, 91, 93, 95.
2.7	216-218	1, 2, 3, 4, 5, 9, 13, 15, 20, 29, 35, 43, 49, 55, 59, 63, 65, 71, 75, 77, 79, 83.
2.8	225-229	1, 2, 4, 5, 11, 17, 25, 29, 31, 39, 45, 55, 57, 61, 83, 85, 89, 95, 99, 103.
3.1	251-254	1, 3, 4, 5, 15, 27, 35, 37, 47, 51, 55, 57, 63, 64, 65 [†] , 67.
3.2	265-268	1, 2, 3, 4, 7, 11, 23, 29, 35, 37, 45, 65, 67, 75, 81, 83, 85, 87, 89, 92 [†] .
3.3	273-275	1, 2, 3, 7, 9, 11, 19, 31, 35, 39, 49, 53, 55, 57, 61, 63, 67, 71, 73, 75.
3.4	283-286	1, 3, 7, 13, 15, 27, 29, 33, 41, 45, 53, 55, 57, 61, 91, 95, 99, 102, 107, 108 [†] . Note: Descartes' Rule of Signs and Upper and Lower Bounds Theorem are optional.
3.5	293-294	1, 4, 5, 7, 9, 31, 35, 37, 41, 47, 51, 61, 67, 69, 73, 75, 76 [†] .
3.6	308-311	1, 2, 7, 27, 33, 35, 45, 53, 59, 63, 65, 69, 73, 77, 79, 87, 89, 93, 94 [†] .
3.7	316-317	3, 7, 13, 23, 27, 31, 35, 37, 41, 45, 51, 55, 57.

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4.1	336-338	1, 2, 5, 7, 17, 21, 23, 27, 29, 31, 39, 43, 45, 51, 57, 63, 65.
4.2	341-343	1, 2, 3, 5, 7, 11, 17, 18, 19, 23, 25, 27, 33, 35, 39.
4.3	351-354	4, 7, 9, 11, 15, 19, 23, 35, 43, 45, 47, 49, 51, 53, 63, 67, 73, 79, 89, 95†, 97, 105†.
4.4	358-360	4, 5, 6, 7, 17, 19, 31, 37, 47, 51, 53, 61, 67, 73, 75.
4.5	368-370	3, 7, 15, 17, 21, 35, 39, 45, 49, 55, 59, 61, 63, 67, 69, 83, 91, 99, 101, 105†.
4.6	378-380	1, 3, 5, 7, 9, 17, 19, 21, 23, 25, 27.
4.7*	385-386	1, 3, 9, 11, 13, 15, 17.
5.1	407-409	1, 3, 9, 13, 17, 19, 23, 27, 31, 33, 37, 41, 43, 47, 49, 51, 59.
5.2	416-419	1, 3, 5, 13, 17, 19, 25, 31, 35, 39, 41, 47, 51, 53, 55, 63, 65, 71, 81, 83.
5.3	429-431	7, 11, 15, 23, 25, 27, 35, 37, 39, 45, 47, 49, 63, 69, 71, 73, 77, 81, 85, 90†.
5.4	438-439	1, 9, 11, 19, 27, 29, 31, 35, 37, 41, 43, 45, 47, 49, 51, 53, 57, 61.
5.5	444-445	1, 3, 5, 7, 9, 11, 13, 15, 17, 21, 23, 31, 33, 35, 37, 39, 41, 43.
5.6*	456-460	1, 5, 9, 13, 15, 17, 21, 23, 27, 29, 35, 39, 41, 45, 47, 51, 53, 55, 57, 61.
6.1	478-481	13, 15, 23, 25, 27, 29, 33, 37, 39, 45, 49, 50, 54, 59, 67, 75, 77, 79, 81, 83, 85, 87, 91.
6.2	487-490	9, 13, 21, 23, 27, 28, 29, 31, 37, 41, 43, 47, 48, 49, 51, 53, 55, 57, 59, 61, 62, 63, 65, 67, 71.
6.3	498-501	8, 9, 11, 17, 19, 25, 27, 29, 31, 33, 35, 37, 39, 43, 45, 50, 51, 53, 55, 56, 57, 63, 67, 69, 72†, 73.
6.4	506-508	7, 8, 15, 21, 26, 28, 29, 31, 33, 37, 38, 39, 41, 43, 45.
6.5	513-516	9, 13, 19, 23, 25, 27, 29, 31, 32, 33, 35, 37.
6.6	520-523	13, 15, 17, 19, 23, 25, 27, 35, 37, 39, 41, 43, 44, 45, 46, 47, 53
7.1	542-545	7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 28, 29, 35, 38, 39, 41, 43, 45, 49, 51, 53, 55, 58, 59, 61, 63, 64, 65, 66, 67, 69, 70, 71, 72, 73, 77, 78, 79, 81, 82, 85, 89, 91, 93, 95, 97.
7.2	551-553	9, 11, 13, 15, 17, 19, 23, 32, 35, 37, 39, 42, 47, 49, 51, 53, 55, 57, 63, 65, 70, 73, 76.
7.3	560-564	7, 9, 19, 27, 28, 29, 32, 39, 41, 43, 45, 47, 49, 51, 53, 73, 75, 77, 79, 81, 83, 113. Optional: 55, 59, 63, 65, 89, 91, 93, 101.
7.4	568-570	5, 7, 9, 11, 13, 17, 21, 23, 29, 33, 35, 37, 41, 43, 47, 49, 51, 53, 55, 57, 59.
7.5	574-576	5, 7, 9, 11, 15, 17, 21, 25, 27, 29, 31, 33, 35, 39, 41, 43, 45, 47, 49, 51, 53†, 55†, 61, 67.
8.1	592-593	7, 9, 13, 15, 19, 21, 23, 25, 27, 31, 38, 39, 43, 47, 49, 51, 57, 61, 63, 65, 69, 72.
8.2	600-601	7, 29, 31, 33, 35, 37, 39, 41, 49, 53, 55, 57, 59

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8.3	609-611	5, 7, 9, 11, 15, 17, 43, 45, 47, 49, 51, 55, 57, 59, 61, 63. Note: De Moivre's theorem and nth roots of complex numbers are optional.
8.4	617-620	5, 7, 9, 11, 13, 17, 19, 21, 25, 27, 37, 38, 43, 47, 49.
9.1	637-639	3, 5, 7, 11, 17, 19, 21, 23, 25, 27, 29, 33, 35, 37, 39, 41, 45, 49, 51, 53, 55, 57, 63, 65, 57, 69.
9.2	646-647	11, 13, 17, 19, 21, 23, 37, 45, 47, 49, 51.
9.3*	652-653	7, 9, 11, 13, 15, 17, 19, 21.
9.4*	658-659	3, 5, 7, 9, 11, 13, 15, 19, 23, 27, 31, 35, 39, 43.
9.5*	665-666	3, 7, 9, 11, 13, 15, 17, 21, 23, 27, 31, 33.
9.6*	669-670	5, 7, 11, 13, 17, 19, 23, 25, 29, 31.
10.1	688-690	39, 41, 45, 49, 51, 53, 63, 65, 67, 69, 71, 73.
10.2	697-698	29, 31, 33, 35, 37, 39, 41, 43, 45, 47.
10.3*	709-712	15, 17, 19, 37, 43, 45, 51, 55, 57, 59, 61, 63, 69, 71, 73.
11.1	788-790	21, 23, 25, 29, 37, 43, 45, 49, 51, 53, 55, 59, 61, 63
11.2	796-799	17, 19, 27, 31, 33, 45, 47, 49, 51, 53, 65, 67, 69.
11.3	805-807	21, 25, 27, 29, 31, 33, 35, 39, 41, 45, 49, 51, 57.
11.4	813-816	13, 17, 21, 23, 29, 31, 33, 51, 53, 55, 61, 67.
12.1	850-852	13, 17, 19, 25, 27, 29, 35, 37, 39, 43, 45, 51, 53, 59, 63, 65, 69, 71, 73, 77, 79, 81, 83.
12.2	856-858	5, 7, 9, 11, 15, 23, 25, 29, 31, 39, 43, 45, 47, 49, 53, 55, 61, 63, 65, 71, 73, 75.
12.3	864-867	5, 7, 9, 11, 17, 19, 25, 27, 33, 35, 37, 39, 45, 47, 49, 51, 53, 59, 71, 73, 75, 87, 91, 93.
12.5*	878-879	3, 5, 7, 9, 11, 13, 17, 19, 21, 25.
12.6	886-887	11, 13, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41.

*: Optional. Instructors may assign the problems.

** : Optional, but **strongly recommended to cover this section**. Some of the topics in this section are covered in Math 121.

†: Tough. Instructors may assign this problem as a group project or honors options.