Math 43 Tentative Homework

LEARN: You should consult your notes, your textbook, the solution manual, a tutor or study partner as

needed when doing these exercises, to make sure you understand the logic of the problem solving process. Check your answers against the solutions, figure out what you did incorrectly, and redo the

problem, writing the solution logically, clearly and succinctly. Then do another (possibly unassigned) problem of the

same type to make sure you understand.

PRACTICE : Try to do these without any of the help mentioned above. Check your answers against the solutions

<u>only</u> when you have come up with your own answer. If your answer was incorrect, try to figure out what you did incorrectly without getting help. Then do another (possibly unassigned) problem of the

same type to make sure you understand. Do more learning problems if needed.

TEST : Do these without any help. Make sure you can complete these all the way through without stopping

for extended periods of time to think about the next step. Think how to check your answer without

5, 71, 73, 75, 79, find center & radius of $3x^2 + 3y^2 + 6x + 12y - 33 = 0$ (Answer: (-1, -2), 4)

using the solutions. Do more learning and practice problems if needed.

Remember: If you hope to pass this class, you should do more than the homework assigned below.

MIDTERM 1 SECTIONS

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9.1
                                   1-8, 13, 17, 33, 47, 57, 63, 67, 73, 79, 91, 105, 113, 121, 127, 129
         LEARN
                                   21, 31, 49, 53, 65, 69, 75, 81, 93, 111, 115, 124
         PRACTICE
         TEST
                                   19, 26, 34, 51, 62, 70, 74, 83, 94, 112, 116, 128
9.2
         LEARN
                                   1-4, 5, 15, 25, 37, 47, 57, 59, 71, 91, 101, 105
                                   13, 21, 29, 39, 49, 55, 61, 73, 95, 102, 106
         PRACTICE
         TEST
                                   9, 17, 31, 40, 50, 58, 64, 74, 100
9.3
         LEARN
                                   1-4, 11, 21, 31, 37, 47, 53, 71, 87, 101, 106, 109, 115, 117, 127, 137, 138
         PRACTICE
                                   7, 25, 29, 39, 51, 83, 89, 103, 107, 133
         TEST
                                   16, 27, 33, 41, 52, 85, 92, 105, 110, 118, 134
9.4
        LEARN
                                   1–4, 5, 15, 17, 19, 27, 37, 47 (prove your answer by induction), 57
         PRACTICE
                                   7, 13, 25, 43, 48 (prove your answer by induction), 55
         TEST
                                   8, 24, 30, 39, 58
         LEARN
9.5
                                   1-4, 9, 15, 21, 31, 43, 47, 59, 61, 67, 73, 93-98, 101, 105
                                   11, 17, 27, 37, 41, 49, 54, 63, 69, 75
         PRACTICE
                                   10, 16, 23, 35, 42, 51, 57, 65, 68, 74
         TEST
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MIDTERM 2 SECTIONS

LEARN

TEST

1.2

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81, find center & radius of 2x^2 + 2y^2 - 12x + 16y + 24 = 0 (Answer: (3, -4), \sqrt{13})
         PRACTICE
                                    72, 74, 76, 82, find center & radius of 4x^2 + 4y^2 + 12x - 20y - 2 = 0
         TEST
                                    1-13, 23, 25, 29, 39, 45, 51, 55, 57, 59, 71, 83, 84, 87
10.2
         LEARN
                                    17, 21, 27, 31, 41, 47, 54, 73
         PRACTICE
                                    18, 22, 26, 32, 42, 48, 52, 58, 60, 75
         TEST
10.3
                                    1-4, 7, 9, 11, 13, 17, 19, 23, 25, 35, 41, 57, 61, 63, 65, 69, 73, 76
         LEARN
         PRACTICE
                                    15, 21, 22, 26, 39, 45, 59
         TEST
                                    10, 14, 18, 24, 27, 49, 51, 60, 62
                                    1-5, 13, 15, 19, 29, 31, 33, 35, 39, 43, 51, 53, 57, 59, 63
10.4
         LEARN
         PRACTICE
                                    11, 17, 21, 37, 41, 45, 65, 67, 69
         TEST
                                    10, 18, 22, 36, 40, 46, 60, 66, 68, 70
10.7
         LEARN
                                    1-5, 11, 21, 31, 43, 45, 65, 67, 73, 77, 101, 105, 109, 111, 113, 117, 119-121, 123
         PRACTICE
                                    7, 17, 25, 33, 39, 51, 69, 75, 87, 91, 93, 97, 99, 107
         TEST
                                    6, 12, 26, 35, 46, 48, 74, 81, 102, 108, 110, 112, 114, 118
10.8
                                    1-7, 9, 13, 19, 23, 29, 33, 34, 39, 69, 70, 79
         LEARN
         PRACTICE
                                    17, 21, 25, 31, 41
         TEST
                                    8, 10, 11, 14, 20, 26, 30, 37, 38, 42
10.9
         LEARN
                                    1-4, 15, 19, 23, 39, 41, 43, 45, 49, 53, 63, 65
         PRACTICE
                                    17, 21, 25, 47, 51, 52
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16, 22, 28, 40, 42, 44, 48, 50, 54

MIDTERM 3 SECTIONS

10.6	LEARN	:	1–5, 9, 13, 17, 21, 23, 27, 29, 38, 50, 52, 56, 61b, 63, 69, 70
	PRACTICE	:	6, 11, 19, 25, 31, 39
	TEST	:	12, 14, 18, 22, 26, 32, 34
6.3	LEARN	:	1–11, 19, 29, 31, 41, 49, 53, 59, 63, 69, 77, 83, 85, 103–111
	PRACTICE	:	21, 28, 35, 47, 51, 55, 61, 76, 87
	TEST	:	12, 24, 30, 36, 48, 50, 56, 62, 64, 71, 78, 84, 88
6.4	LEARN	:	1–7, 17, 23, 25, 35, 45, 49, 53, 59, 67, 71, 73, 79, 90, 91
	PRACTICE	:	11, 19, 41, 55
	TEST	:	13, 20, 27, 44, 47, 51, 57, 61, 69, 74, 81
11.1	LEARN	:	1–9, 11, 17, 21, 29, 41, 47, 59, 67, 71, 79, 81, 83, 85
	PRACTICE	:	13, 19, 25, 31, 43, 49, 57, 69, 73
	TEST	:	10, 15, 20, 22, 35, 42, 51, 60, 68, 74
11.2	LEARN	:	1–7, 9, 11, 17, 19, 29, 31, 37, 39, 47, 51, 55, 57, 61, 63
	PRACTICE	:	13, 25, 33, 35, 43, 49, 53
	TEST	:	8, 10, 18, 27, 30, 34, 38, 45, 48, 54, 56, 58
11.3	LEARN	:	1–11, 21, 33, 39, 43, 49, 53, 55, 59, 63–66
	PRACTICE	:	19, 25, 31, 41, 45, 47, 51, 57
	TEST	:	20, 29, 35, 37, 46, 48, 54, 56, 60
11.4	LEARN	:	1–5, 9, 11, 19, 25, 29, 31, 33, 35, 37, 41, 43, 47, 51, 59, 63, 65, 67
	PRACTICE	:	7, 13, 23, 27, 39, 49, 53, 57
	TEST	:	10, 15, 20, 26, 30, 32, 34, 36, 38, 42, 44, 48, 55, 58

POST-MIDTERM 3 SECTIONS

PRACTICE

TEST

7.2	LEARN	:	1–3, 17, 29, 43, 51, 53, 63–65, 71, 73
	PRACTICE	:	19, 35, 49
	TEST	:	25, 41, 50
7.3	LEARN	:	1–6, 9, 13, 19, 25, 33, 45, 53, 59, 61, 65
	PRACTICE	:	8, 11, 21, 23, 35, 63, 67
	TEST	:	15, 27, 29, 39, 47, 54, 71
8.1	LEARN	:	1–9, 23, 31, 39, 41, 45, 57, 71, 79, 95, 107, 117–118
	PRACTICE	:	11, 25, 33, 40, 43, 47, 73, 81, 109
	TEST	:	12, 24, 34, 44, 46, 58, 75, 83, 97
8.2	LEARN	:	1–6, 9, 13, 21, 31, 33, 35, 47, 53, 61, 65, 67, 77–86
	PRACTICE	:	15, 23, 37, 49, 55, 69, 75
	TEST	:	10, 14, 24, 32, 38, 40, 51, 54, 63, 73
8.3	LEARN	:	1–5, 9, 15, 19, 41, 45, 51, 57, 63, 69, 77, 79
	PRACTICE	:	7, 17, 20, 55, 73
	TEST	:	11, 16, 24, 43, 52, 58, 64, 74
8.4	LEARN	:	1–4, 7, 29, 33, 37, 39, 51, 65, 67, 71, 73, 75, 79, 87, 91–93
	PRACTICE	:	9, 31, 35, 45, 81, 89
	TEST	:	15, 32, 38, 49, 66, 70, 76, 83, 90
7.1	LEARN	:	1–6, 9, 13, 15, 31
	PRACTICE	:	17, 33
	TEST	:	19, 32
7.5	LEARN	:	1–7, 17, 33, 37, 43, 47, 49, 51, 63, 75, 81, 85, 87, 89, 91–94

15, 19, 35, 39, 53, 69, 77

18, 36, 40, 44, 46, 52, 62, 79