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

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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5, 71, 73, 75, 79, find center & radius of 3x^2 + 3y^2 + 6x + 12y - 33 = 0 (Answer: (-1, -2), 4)
1.2
         LEARN
                                    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
         TEST
                                    18, 22, 26, 32, 42, 48, 52, 58, 60, 75
                                    1-4, 7, 9, 11, 13, 17, 19, 23, 25, 35, 41, 57, 61, 63, 65, 69, 73, 76
10.3
         LEARN
         PRACTICE
                                    15, 21, 22, 26, 39, 45, 59
         TEST
                                    10, 14, 18, 24, 27, 49, 51, 60, 62
10.4
         LEARN
                                    1-5, 13, 15, 19, 29, 31, 33, 35, 39, 43, 51, 53, 57, 59, 63
         PRACTICE
                                    11, 17, 21, 37, 41, 45, 65, 67, 69
                                    10, 18, 22, 36, 40, 46, 60, 66, 68, 70
         TEST
10.7
         LEARN
                                    1-5, 11, 21, 31, 43, 45, 65, 67, 73, 77, 101, 105, 109, 111, 113, 117, 119-121, 123
                                    7, 17, 25, 33, 39, 51, 69, 75, 87, 91, 93, 97, 99, 107
         PRACTICE
         TEST
                                    6, 12, 26, 35, 46, 48, 74, 81, 102, 108, 110, 112, 114, 118
10.8
         LEARN
                                    1-7, 9, 13, 19, 23, 29, 33, 34, 39, 69, 70, 79
         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
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TEST : MIDTERM 2 SECTIONS

TEST

PRACTICE

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
9.1	LEARN	:	1–8, 13, 17, 33, 47, 57, 63, 67, 73, 79, 91, 105, 113, 121, 127, 129
	PRACTICE	:	21, 31, 49, 53, 65, 69, 75, 81, 93, 111, 115, 124
	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
	PRACTICE	:	13, 21, 29, 39, 49, 55, 61, 73, 95, 102, 106
	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, 47 (prove your answer by induction), 57
	PRACTICE	:	7, 13, 18, 23, 43, 48 (prove your answer by induction), 55
	TEST	:	8, 14, 24, 44 (prove your answer by induction), 58
9.5	LEARN	:	1–4, 9, 15, 21, 31, 43, 47, 59, 61, 67, 73, 93-98, 101, 105
	PRACTICE	:	11, 17, 27, 37, 41, 49, 54, 63, 69, 75

10, 16, 23, 35, 42, 51, 57, 65, 68, 74

17, 21, 25, 47, 51, 52

16, 22, 28, 40, 42, 44, 48, 50, 54

MIDTERM 3 SECTIONS

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	:	
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
	DD A COLOR		7 10 00 07 00 10 50 57

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

7.1

7.5

LEARN

LEARN

TEST

PRACTICE TEST

PRACTICE

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

1–6, 9, 13, 15, 31

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

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

1-7, 17, 33, 37, 43, 47, 49, 51, 63, 75, 81, 85, 87, 89, 91-94

17, 33

19, 32