#### **Math 2A Tentative Homework**

At this level of math, you should consider it your responsibility to do as many of the textbook problems as possible. The problems listed below are the minimum you should do to develop the necessary understanding to grasp future material.

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.

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

problems if needed.

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

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NOTE: Many of the TEST questions do not have answers in the textbook. DO NOT SKIP THOSE QUESTIONS.
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Instead, after you think you have a solution, compare it to several other students' solutions.

Decide whose solution is properly justified and most efficient.

# MIDTERM 1 SECTIONS

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1.1
         LEARN
                                   1, 5, 9, 13, 17, 19, 21, 25, 29, 31, 33, 37, 39, 41, 43, 45, 47, 49, 55
         TEST
                                   2, 3, 10, 14, 15, 20, 23, 30, 32, 34, 38, 42, 46, 51, 57
1.2
         LEARN
                                   1, 9, 21, 25, 31, 35, 39, 47
         TEST
                                   3, 13, 23, 27, 33, 37, 43
1.3
         LEARN
                                   1, 3, 7, 9, 12, 17, 25, 31
         TEST
                          :
                                   2, 4, 8, 10, 26, 27
2.1
         LEARN
                                   1, 7, 13, 15b, 19, 25, 29, 39, 41
         TEST
                                   3, 9, 20, 22, 30, 40
                          :
2.6
         LEARN
                                   1, 7 (use Euler's method only)
         TEST
                                   2, 9 (use Euler's method only)
2.2
         LEARN
                                   5, 7, 9, 13, 19, 25, 29, 39
                                   8, 10, 12, 14, 18, 28, 30, 40
         TEST
2.3
         LEARN
                                   7, 13, 15, 17, 19, 20, 23-25, 37, 39
         TEST
                                   11, 14, 16, 21, 28, 38, 40
2.4
         LEARN
                                   3, 7, 13, 18, 21, 27, 29, 31, 33, 44
         TEST
                                   5, 9, 11, 14, 15, 17, 26, 28, 30, 34, 35
2.5
                                   3, 5, 9, 11, 17, 21, 31, 35
         LEARN
         TEST
                                   7, 10, 13, 19, 22
```

### **MIDTERM 2 SECTIONS**

LEARN

**TEST** 

4.10

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4.1
        LEARN
                                   3, 5, 9, 19, 25, 33, 35
        TEST
                                   2, 10, 21, 26, 34, 36, 40
4.2
        LEARN
                                   7, 9, 13, 15, 19
        TEST
                                   2, 12, 20
                          :
4.3
        LEARN
                                   5, 7, 13, 17, 21, 23, 35, 49, 52, 55, 61
        TEST
                                   6, 8, 14, 19, 22, 26, 33, 56, 58
4.7
        LEARN
                                   7*, 11*, 13*, 15★
                                   8*, 14*, 28*
        TEST
        * Solve using both methods (guessing y = x^r, and substituting x = e^t)
         ★ Solve by guessing y = x^r; for extra challenge, solve by substituting x = e^t
                                   1, 3, 7, 11, 15, 17, 19, 21, 23, 35, 41
        LEARN
4.4
        TEST
                                   6, 8, 10, 28, 30, 31, 43
                          :
4.6
        LEARN
                                   3, 5, 9, 11, 13, 15, 17, 21, 23
                                   4, 6, 10, 12, 14, 18, 22, 24
        TEST
4.7
        LEARN
                                   19, 21, 23, 29, 33, 35
        TEST
                                   22, 24, 30, 34
4.9
        LEARN
                                   9, 11, 13, 21, 23
        TEST
                                   2, 6, 15, 16, 24
```

1, 5, 7, 13

6, 10, 14

# **MIDTERM 3 SECTIONS**

7.1 LEARN : 3, 5, 7, 13, 15, 17, 25, 29, 31, 39, 55, 56abc

TEST : 4, 6, 8, 14, 16, 18, 28, 32

7.2 LEARN : 5, 7, 9, 11, 13, 15, 19, 23, 27, 31, 33, 36, 37, 39

7.3 LEARN : 5, 9, 15, 17, 19, 25, 29, 39, 41, 43, 47, 55, 59, 61, 65, 67, 69

7.4 LEARN : 1, 3, 7, 9, 11, 13, 49, 51, 57, 59

# **POST-MIDTERM 3 SECTIONS**

6.1 LEARN : 7 (radius only), 23, 27, 33

TEST : 4 (radius only), 24, 26, 34

6.2 LEARN : 1, 11, 17, 19

TEST : 2, 9, 18, 20 LEARN : 9, 11, 19, 23

TEST : 7, 12, 18, 20

3.1 LEARN : 9, 19, 23, 25, 35, 36, 37

TEST : 17, 27, 42, 44, 48

3.2 **LEARN** : 1, 5, 15, 21 TEST : 2, 8, 16, 18

3.3 LEARN : 1, 5 TEST : 4, 6

5.\* TBA

6.3