

## Homework

MATH143, Sections 2 and 4

Fall 2011

**A very IMPORTANT part of your homework is to READ every section of the textbook which we cover.**

Section 7.1: pages 338–341, Exercises # 3–45 odds, 49,51,57,59,65,67,73,75,77,83, 91,99,103,113 [ $\tanh z = \frac{e^z - e^{-z}}{e^z + e^{-z}}$ ], handouts

Section 7.2: pages 346–347, Exercises #3–19 odds,25–37 odds, 53,55,57,59, handout, Read # 49–52.

Section 7.3: page 351, Exercises # 13,19,25,27,37,39,43,45,49. The text **says** to do these exercises using the table. You should also do these exercises using techniques of integration and using Maple and/or a calculator. I will assign two or more projects related to this section.

Section 7.4: pages 359–360, Exercises # 3,10,19,21,27,29,31,35–51 odds, 55,57,61,63, 65, handouts

Chapter Seven Review: pages 385–387, Exercises # 9,17,21,35,39,43,47,49,59,67,75, 77,89,93,95,97,101,103,112,119,121,135,137,141

Section 7.5: pages 365–366, Exercises # 3,7,12,13,23, handouts

Section 7.6: handout and project

Check Your Understanding(True/False), pages 389–390, # 1–9 odds, 21–31 odds

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Section 7.7: pages 378–379, Exercises # 1,3,11,38,5,7,9,13,17,19,27,31,39, handouts

Section 7.8: pages 383–384, Exercises # 5,8,9,11,13,15,17,19,23,25,27, project

Chapter Seven Review: page 387, Exercises # 143,14,149,153,155

Check Your Understanding(True/False), page 389, # 11–19 odds

Section 8.1: pages 396–398, Exercises # 3,5,9,13,15,17,19,27, handouts

Section 8.2: pages 404–406, Exercises # 1,5,11,13,21,23,29,35,37,39,41,47, handouts, Read # 55.

Section 8.3: pages 413–415, Exercises # 3,5,17,19,25,29,33,39, handouts

Section 8.4: pages 421–423, Exercises # 1,3,7,9,13,15,18,25,29, handouts and project

Section 8.5: pages 430–432, Exercises # 3,5,7,15,17,23,31, handout

Section 8.7: pages 444–446, Exercises # 1,3,13,18, handout

Section 8.8: pages 452–453, Exercises # 4,5,7,11, handout

Chapter Eight Review: pages 455–457, Exercises # 27,29,35,37,39,41,43,47,51,52, 55,59

Check Your Understanding(True/False), pages 459–460, #1,3,9,13,17,23,25

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Section 10.2: pages 517–518, Exercises # 1,9,11,15,17,19,21,23 (For # 17–23, reinterpret the instructions as saying to write each series using summation notations.)  
# 31,33,35,37,39,41,43, handouts

Section 10.3: pages 523–524, Exercises # 1,3,5,7,9,11,17,19,21,25,29

Section 9.1: pages 467–468, Exercises # 1,3,5,9,13,15,17,19,21,23,25,27,29,31,41,43, 45, handouts

Section 9.2: pages 474–475, Exercises # 1,3,5,7,9,11,17,19,21,23,29,31, handouts

Section 10.1: pages 512–513, Exercises # 1,3,7,11,13,15,17,21,25

Section 9.4: pages 488–490, Exercises # 9,11,13,15,17,19,20,21,22,23,25,27,29,31,39, 41,45,55,57,59,61,65,67, handouts. Read #88,89 and the discussion before them.

Section 9.3: page 480, Exercises # 5,7,9,13,15,19,21,23,27,29,31, handouts and project

Section 9.5: pages 496–497, Exercises # 5,7,9,11,13,15,17,19,21,25,27,37,39, handouts

Chapter Nine Review: pages 498–499, Exercises # 29–47 odds, 59

Check Your Understanding(True/False), page 501, all odds

Section 10.4: page 529, Exercises # 3,5,7, handout

Chapter Ten Review: pages 543–544, Exercises # 7,9,11,19,21,23,25,27,29,41

Check Your Understanding(True/False), page 546, # 1,7,9,15

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Section 11.1: pages 553–554, Exercises # 1,3,5,7,9,11,13,15,17,21

Section 11.2: pages 558–560, Exercises # 5,7,12,13,14, handouts and project

Section 11.3: page 563, Exercise # 3, handouts

Section 11.4: pages 568–569, Exercises # 3,5,7,11,13,21,23,27,29,33,35,37,39,41, hand-  
out

Section 11.5: pages 576–578, Exercises # 1,3,4,5,11,13,25.

Section 11.6: pages 585–586, Exercises # 9,10,13,17,23

Section 11.7: pages 594–597, Exercises # 3,5,7,9,27,29, handouts

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Section 11.10: page 618, Exercise # 5, handout

Section 11.11: page 625, Exercises # 1,3,5,9,13,15,21, handout