

COMPLEX FUNCTION THEORY, MATH 418

Time and Place. 1140-1255P MT 205

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Text. Complex Variables and Applications by J. Brown and R. Churchill

Content. Chapters 1-8 in Brown & Churchill's book. If time permits, other topics will be covered.

Homework: There will be weekly homework assignments, to be handed in during Thursday class. Late homework is not accepted. The grader for this course is Liang Chen. You can get in touch with him via

Email: lc273@cornell.edu

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Office hours: Malott 218, Thu 2:50-3:50pm

Grading. There will be one prelim and a final exam. The date and time for the prelim will be announced later in class. The final exam will take place on Thursday, May 11, 9:00-11:30, room to be posted after March 31. Your grade will be calculated as follows:

Homework: 30%

Prelim: 30%

Final: 40%

MATH 418 -HOMEWORK ASSIGNMENTS - SPRING 2006

Chapter 1.

- p.4: 4
- p.7: 1a*, 5*
- p.11: 3*, 4b*, 5b
- p.13: 2a*, 7*, 13*, 14
- p.21: 5*, 9*, 10
- p.28: 6, 7*
- p.31: 1, 2, 3, 7*

Chapter 2.

- p.35: 2, 4
- p.48: 3*, 4, 5, 7*
- p.53: 5*, 10, 11*, 13*
- p.59: 1, 2, 7, 8*
- p.68: 1a, 3, 4c*, 10*
- p.73: 1b*, 6, 7a*
- p.78: 1a, 1c, 4, 6, 11*
- p.84: 2, 4

Chapter 3.

- p.89 : 6*, 8*, 10b, 11, 13
- p.94 : 1b, 2c, 3b, 5b*, 11*
- p.96: 2*
- p.99: 1, 2*, 5*, 7
- p.103: 2, 5b*, 14, 18*
- p.107: 15
- p.110: 1a

Chapter 4.

- p.115: 2, 3, 4, 7*
- p.120: 2, 5*
- p.128: 1, 6*, 7*, 10a*
- p.133: 2, 3, 5*
- p.141: 2a, 2c*, 5*
- p.153: 1, 2c*, 4, 7*
- p.162: 1a, 1b*, 2b*, 4, 5, 7*
- p.171: 1, 2, 7*

Chapter 5.

- p.181 : 2*, 4, 8, 9*
p.188: 1, 2, 3, 5*, 9, 10*, 13*
p.198: 2*, 4, 5*, 7
p.212: 1, 2, 4, 5*, 6*, 11*
p.218: 1, 4*, 7, 8*

Chapter 6.

- p.230: 1, 2, 3*, 5*
p.233: 1, 2, 4
p.238: 1, 2, 3*, 5*, 6
p.245: 2, 3, 5*, 7*

Chapter 7.

- p.257: 4, 5, 7*, 9
p.265: 1, 2*, 4, 6, 8, 11, 12*
p.276: 1, 2, 4*, 7*
p.280: 2, 4, 5, 6*, 7
p.286: 1, 2, 5*, 6, 8*, 9, 10*
p.296: 1, 2, 3, 4, 6, 7, 8*

Chapter 8.

- p.301: 2*, 5
p.305: 2, 4, 5, 7*, 11, 12*, 14
p.312: 2*, 3, 5, 6*, 7, 10*
p.316: 3, 5, 6*, 7*
p.322: 1*, 5, 7*
p.328: 1, 3, 5*, 7
p.334: 2, 6, 7*
p.338: 1, 3*
p.340: 1*, 4*