

MAT 509 –Kısmi Türevli Denklemler I
[2017-18-Güz Dönemi]

HOMEWORK

(TEXT BOOK: *Partial Differential Equations: An Introduction, Walter A. Strauss, Wiley, 2007*)

Homework Set-1 (Deadline: September 26, 2017 – Tuesday, in class)

Page 5-6 : Q4
Page 10 : Q2, Q10
Page 19 : Q5
Page 24 : Q2, Q4
Page 27-28 : Q4, Q5
Page 31-32 : Q2, Q5, Q6

Homework Set-2 (Deadline: October 12, 2017 – Thursday)

Page 38 : Q10
--Prove the maximum principle
Page 46 : Q6, Q7
Page 52-54 : Q16, Q18

Homework Set-3 (Deadline: November 1, 2017 – Wednesday)

Page 60 : Q3
Page 66 : Q1 (first read Section 3.2, and then solve this question!)
Page 71 : Q1, Q3
Page 79 : Q6

Homework Set-4 (Deadline: November 15, 2017 – Wednesday)

Page 89 : Q4, Q6
Page 92 : Q3, Q4

EXERCISE

Page 111 : Q4, Q9
Page 117 : Q4, Q5
Page 123 : Q3
Page 134 : Q5-a,b, Q7-a,d