

MAT 396 – MESLEKİ İNGİLİZCE II (Kısmi Diferensiyel Denklemler)
[2018-19 Güz Dönemi]

HOMEWORK

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

Homework Set-1 (Deadline: October 02, 2018 – Tuesday, in class)

Page 5-6: Q3, Q12
Page 10: Q7, Q9
Page 24: Q1
Page 28: Q5
Page 31-32: Q2, Q5

Homework Set-2 (Deadline: October 19, 2018 – Tuesday, in class)

Page 38: Q2
Page 46: Q2, Q4-a
Page 52-54: Q1, Q16

Homework Set-3 (Deadline: November 02, 2018 – Friday, in class)

Page 60: Q2
Page 66: Q1
Page 70: Q1
Page 79: Q2
Page 92: Q1, Q2

Homework Set-4 (Deadline: November 20, 2018 – Tuesday, in class)

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

EXERCISE

Problem 1: Let D be a bounded region in two dimensions and u be continuous on the closed set $D \cup \partial D$ with $\Delta u = f$ on D ; and $u = g$ on ∂D . **Show that** if $f(x,y) \leq 0$, then u attains its minimum on ∂D .

Page 160-161: Q2, Q5
Page 172: Q2
Page 176: Q9