**MAT 396 – MESLEKİ İNGİLİZCE II (Kısmi Diferensiyel Denklemler)**

**[2015-16-Güz Dönemi]**

**HOMEWORK**

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

**Homework Set-1 (Deadline: October 02, 2015 – Friday, in class)**

Page 5-6 : Q3 (b,e,g,h), Q11

Page 10 : Q7, Q10

Page 19 : Q5

Page24 : Q2,Q4

Page 28 : Q5

Page 31-32 : Q2,Q5,Q6

**Homework Set-2 (Deadline: October 23, 2015 – Friday, in class)**

Page 38 : Q2

Page 46 : Q4-a and b

Page 52-54 : Q7, Q16

Page 60 : Q3

**Homework Set-3 (Deadline: November 16, 2015 – Monday in class)**

Page 66 : Q1

Page 70 : Q1

Page 79 : Q3

Page 89 : Q2,

Page 92 : Q1, Q2

**Homework Set-4 (Deadline: November 30, 2015 – Monday in class)**

Page 111 : Q4, Q9

Page 117 : Q5

Page 123 : Q3

Page 134 : Q7-a,d

**EXERCISE Problem 1:** Let **D** be a bounded region and **u** be continuous on the closed set **D∪∂D** with **Δu= f**  on **D**; and **u=g** on **∂D**. Show that if **f(x,y)≤0**, then **u** attains its minumum on **∂D.**

Page 160-161 : Q9, Q11, Q12

Page 172: Q2

Page 176: Q6