Mat II	**Ödev No 11**
Adı Soyadı:	
Öğrenci No:	

			0	**5**	**0**		**0**		
	0	0				0		0	0
	1	1				1		1	1
		2				2		2	2
		3				3		3	3
		4				4		4	4
		5				5		5	5
		6				6		6	6
		7				7		7	7
		8				8		8	8
		9				9		9	9

1) a) $\int_1^\infty \frac{x}{e^x}dx$ b) $\int_1^\infty \frac{1}{x}dx$ c) $\int_1^\infty \frac{1}{x^2}dx$ integrallri hesaplayin.

2) $a_n = \frac{An}{n+B}$ olduguna gore tabloyu doldurun

3) $a_n = \frac{A}{n+B}$ olduguna gore tabloyu doldurun

4) $a_{n+2} = a_{n+1} + a_n$, $a_1=1$, $a_2=1$, Tabloyu doldurun.

5) $a_n = M(P^n - Q^n)$ tabloyu doldurun

M= 0.44721359549

P= $\frac{1+\sqrt{5}}{2}$ =1.618033988749,

Q= $\frac{1-\sqrt{5}}{2}$ = -0.61803398874,

an= M*(P^n - Q^n)

6) $a_n = \frac{An+1}{n+B}$ monotonmudur.

7) a) $\sum_{n=1}^{\infty} D^n$, a) $\sum_{n=1}^{\infty}\left(\frac{1}{D}\right)^n$

8) $\lim_{n\to\infty} a_n = ?$, a) $\frac{An+1}{n+2}$, b) $\sqrt[n]{n}$, c) $\sqrt[5n]{5n}$,

1)	
2)	a_1= , a_2= , a_3= , a_{10}= , a_{100}= ,a_{500}= , a_∞=
3)	a_1= , a_2= , a_3= , a_{10}= , a_{100}= ,a_{500}= , a_∞=
4)	a_3= , a_4= , a_5= a_{10}= , a_{12}= ,a_{15}= , a_∞=
5)	a_1= , a_2= , a_3= , a_5= , a_{10}= , a_{12}= ,a_{15}= , a_∞=
6)	
7)	
8)	