

Kompleks Analiz Ödev 2

1) Aşağıdaki ifadeleri basit kesirlere ayırın.

$$a) P_1(z) = \frac{Cz + D}{z^2 + Az + B}$$

$$b) P_2(z) = \frac{Ez^2 + Fz + G}{z^2 + Az + B}$$

$$c) P_3(z) = \frac{Hz^3 + Kz^2 + Lz + M}{z^2 + Az + B}$$

2) Aşağıdaki ifadeleri basit kesirlere ayırın.

$$a) P_4(z) = \frac{cz + d}{z^2 + az + b}$$

$$b) P_4(z) = \frac{hz^2 + kz + m}{z^3 + ez^2 + fz + g}$$

$z^3 + ez^2 + fz + g = 0$ denkleminin iki kökü çakışmıştır, $z_1 = z_2 = Q1$, Diğer kökü siz bulun.

Listede numarası olmayanlar 999 nolu rakamları kullanacaklar.

No	A	B	C	D	E	F	G	H	K	L	M	Q1	c	d	a	b	h	k	m	e	f	g
999	4	20	6	-28	2	14	12	-1	0	2	52	3	-4	18	-6	9	-2	2	36	-5	3	9
21110011013	-2	5	-2	10	-2	2	0	-2	9	-22	35	-2	6	8	4	4	8	52	56	10	28	24
21110011073	4	5	-10	-8	2	-2	2	5	18	7	-18	2	-3	1	-4	4	3	-20	23	-5	8	-4
22110011009	4	5	6	14	-5	-14	-11	3	11	17	9	3	3	-12	-6	9	9	-54	78	-8	21	-18
22110011012	2	17	-2	46	-2	-6	12	5	6	75	-22	-2	2	2	4	4	-4	-28	-30	1	-8	-12
22110011015	-4	8	-4	4	-2	4	-12	-2	13	-40	44	4	-1	5	-8	16	-3	17	-12	-4	-16	64
22110011031	-4	5	12	-26	1	8	-21	2	-10	30	-36	-3	4	8	6	9	3	22	31	11	39	45
22110011044	8	52	-6	-36	-1	-14	-88	-1	-6	-42	68	-3	3	6	6	9	8	24	21	2	-15	-36
22110011048	-2	5	12	-8	4	4	12	-6	6	-6	-38	5	-4	25	-10	25	-5	43	-75	-12	45	-50
22110011050	2	10	-6	-36	-5	-16	-86	-1	2	-8	4	2	-2	2	-4	4	-1	-10	12	0	-12	16
22110011301	4	20	6	-28	2	14	12	-1	0	2	52	3	-4	18	-6	9	-2	2	36	-5	3	9
22110011303	-2	5	-6	18	5	-16	43	-3	1	-11	-7	-2	-1	-6	4	4	4	19	50	-1	-16	-20
22110011361	4	8	-10	-12	-4	-26	-44	4	22	46	36	2	-6	16	-4	4	-10	20	16	-2	-4	8
22110011363	4	8	2	8	-2	-6	-8	-6	-19	-26	48	4	-4	14	-8	16	0	2	-6	-13	56	-80
22110011366	-6	18	-10	54	-5	20	-36	1	-4	-4	90	-3	2	0	6	9	3	-4	9	1	-21	-45

23110011003	-4	8	12	-36	3	0	-12	-5	16	-12	-68	-5		-2	-12	10	25	-4	-38	-86	13	55	75
23110011006	-2	10	10	8	1	8	18	-2	10	-22	68	1		-2	-2	-2	1	-5	14	7	-7	11	-5
23110011014	2	2	10	8	2	14	12	3	11	26	18	-1		4	7	2	1	-1	9	16	5	7	3
23110011032	4	20	10	28	1	14	48	4	11	70	-72	-2		-5	-14	4	4	-3	4	36	2	-4	-8
23110011034	4	5	-10	-10	6	14	20	-5	-25	-55	-35	4		-6	23	-8	16	-9	29	21	-5	-8	48
23110011035	4	5	8	22	-2	0	12	-1	-6	-5	12	4		1	-2	-8	16	3	-20	36	-10	32	-32
23110011038	-2	17	4	36	-5	14	-49	4	-7	70	53	3		-4	15	-6	9	-5	13	21	-4	-3	18
23110011039	10	26	-4	-30	4	36	74	4	39	90	-56	-1		1	6	2	1	3	12	14	4	5	2
23110011042	-2	5	2	10	6	-10	40	-5	14	-31	30	2		2	0	-4	4	5	-20	12	-8	20	-16
23110011051	-2	5	4	12	3	-2	27	-3	3	-5	-3	-1		4	8	2	1	9	14	-3	1	-1	-1
23110011312	-2	17	2	-50	3	-4	1	1	2	11	18	1		-2	4	-2	1	-1	-4	13	1	-5	3
23110011803	-2	2	-6	4	-3	0	-2	4	-2	-10	16	4		2	-14	-8	16	4	-20	-38	-3	-24	80
23110011804	4	5	6	18	1	10	23	2	9	20	23	-1		-4	-10	2	1	-5	-28	-41	6	9	4
24110011002	10	26	6	26	2	26	78	-3	-31	-82	0	-4		-6	-25	8	16	-10	-27	61	3	-24	-80
24110011003	-4	8	-8	4	-1	-4	-4	-1	7	-28	28	5		3	-9	-10	25	-2	32	-98	-13	55	-75
24110011006	6	10	-8	-20	-3	-26	-50	6	39	70	10	-2		-5	-4	4	4	-11	-18	-16	2	-4	-8
24110011009	2	17	-2	-26	4	6	42	6	10	96	-60	1		1	3	-2	1	-1	2	-17	-7	11	-5
24110011010	2	2	2	-4	6	14	8	-2	-9	-12	-14	-4		1	7	8	16	3	20	11	5	-8	-48
24110011012	2	10	-10	2	6	2	62	5	11	42	12	-2		5	14	4	4	3	-14	-64	0	-12	-16
24110011014	-10	26	-12	52	-2	8	0	-1	11	-48	78	-1		1	2	2	1	3	3	-4	-1	-5	-3
24110011015	6	10	6	26	4	30	66	-6	-40	-78	-14	-3		-2	-11	6	9	-4	-27	-40	8	21	18
24110011016	6	10	6	14	2	18	34	1	7	22	24	1		-2	7	-2	1	-7	29	-47	-8	13	-6
24110011019	-6	13	4	4	6	-32	82	-2	17	-52	69	5		2	-4	-10	25	6	-40	92	-8	5	50
24110011020	-2	17	10	-50	5	0	35	5	-11	97	-67	-4		-1	1	8	16	4	39	82	10	32	32
24110011021	8	17	-6	-32	-1	-14	-49	-5	-36	-59	36	-3		6	19	6	9	4	1	-37	5	3	-9
24110011022	-2	26	-12	2	3	-18	80	3	-4	62	54	3		2	-5	-6	9	-4	19	-24	-12	45	-54
24110011025	8	17	-4	-12	2	12	22	-3	-18	-7	90	-2		-6	-16	4	4	-11	-60	-84	8	20	16
24110011026	6	13	-2	-2	3	16	37	2	10	12	-28	1		-1	-4	-2	1	-2	0	7	-4	5	-2
24110011311	-6	18	8	6	-3	26	-48	1	-7	32	-12	-3		1	5	6	9	-3	-25	-66	0	-27	-54
24110011506	2	10	-2	-32	6	10	28	3	10	36	8	2		1	4	-4	4	-1	11	-12	-5	8	-4
24110011519	-4	20	12	24	3	0	84	-4	13	-56	-36	-1		5	10	2	1	-1	-17	-36	-1	-5	-3
24110011520	2	10	8	-4	4	16	36	5	11	60	6	-1		-1	-5	2	1	-6	-12	10	-1	-5	-3
24110011531	-6	18	4	24	3	-14	78	-4	27	-86	78	4		-3	8	-8	16	-2	-12	48	-4	-16	64
24110011532	2	5	-12	-20	-2	-16	-30	-3	0	-15	10	5		-6	26	-10	25	-4	18	-2	-12	45	-50
24110011534	6	10	-10	-38	-1	-16	-48	-4	-27	-68	-68	-2		1	4	4	4	3	10	0	2	-4	-8
25110011004	6	13	-2	-2	-4	-26	-54	-4	-18	-18	76	-2		2	3	4	4	4	7	2	2	-4	-8
25110011032	2	2	2	6	-3	-4	0	6	16	22	14	-2		-5	-13	4	4	-9	-49	-68	8	20	16
25110011301	-2	17	4	36	-5	14	-49	4	-7	70	53	3		-4	15	-6	9	-5	13	21	-4	-3	18
25110011302	10	26	-4	-30	4	36	74	4	39	90	-56	-1		1	6	2	1	3	12	14	4	5	2
25110011304	-2	5	2	10	6	-10	40	-5	14	-31	30	2		2	0	-4	4	5	-20	12	-8	20	-16
25110011309	-2	5	4	12	3	-2	27	-3	3	-5	-3	-1		4	8	2	1	9	14	-3	1	-1	-1

25110011312	-2	17	2	-50	3	-4	1	1	2	11	18	1		-2	4	-2	1	-1	-4	13	1	-5	3
25110011313	-2	2	-6	4	-3	0	-2	4	-2	-10	16	4		2	-14	-8	16	4	-20	-38	-3	-24	80
25110011314	4	5	6	18	1	10	23	2	9	20	23	-1		-4	-10	2	1	-5	-28	-41	6	9	4
25110011317	10	26	6	26	2	26	78	-3	-31	-82	0	-4		-6	-25	8	16	-10	-27	61	3	-24	-80
25110011319	-4	8	-8	4	-1	-4	-4	-1	7	-28	28	5		3	-9	-10	25	-2	32	-98	-13	55	-75
25110011515	6	10	-8	-20	-3	-26	-50	6	39	70	10	-2		-5	-4	4	4	-11	-18	-16	2	-4	-8