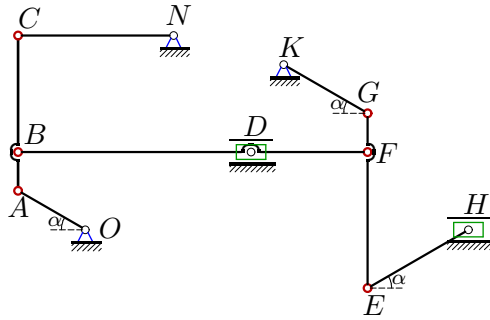


Задача K9.5.

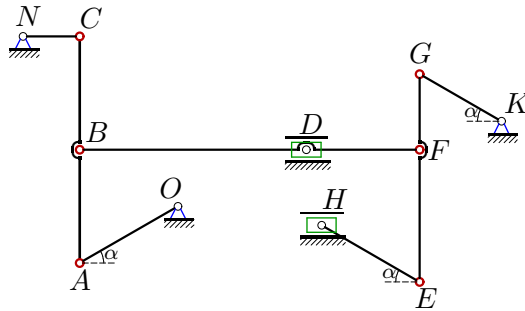
4



$\omega_{NC} = 2 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 10, BC = 30,$
 $DB = 60, DF = 30,$
 $NC = 40, EH = 30,$
 $FE = 35, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.6.

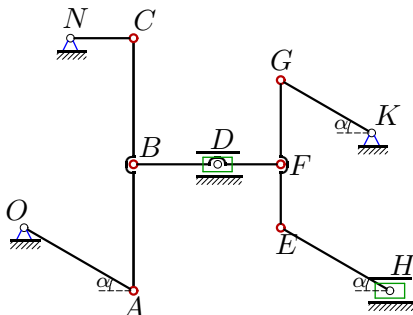
4



$\omega_{OA} = 1 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 30, BC = 30,$
 $DB = 60, DF = 30,$
 $NC = 15, EH = 30,$
 $FE = 35, FG = 20,$
 $OA = 30, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.7.

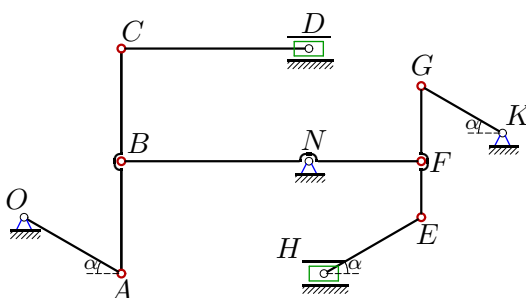
4



$\omega_{OA} = 2 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 30, BC = 30,$
 $DB = 20, DF = 15,$
 $NC = 15, EH = 30,$
 $FE = 15, FG = 20,$
 $OA = 30, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.8.

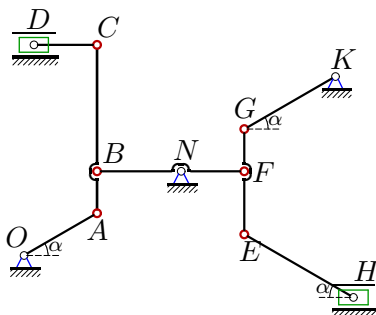
4



$\omega_{OA} = 1 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 30, BC = 30,$
 $NB = 50, NF = 30,$
 $CD = 50, EH = 30,$
 $FE = 15, FG = 20,$
 $OA = 30, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.9.

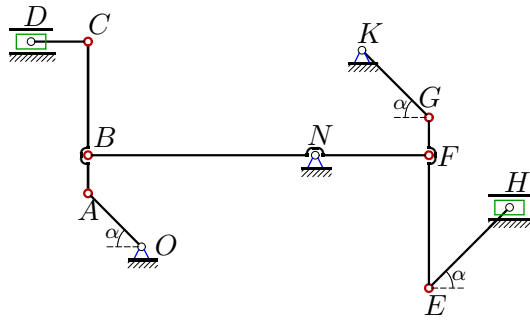
4



$\omega_{OA} = 4 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 10, BC = 30,$
 $NB = 20, NF = 15,$
 $CD = 15, EH = 30,$
 $FE = 15, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.15.

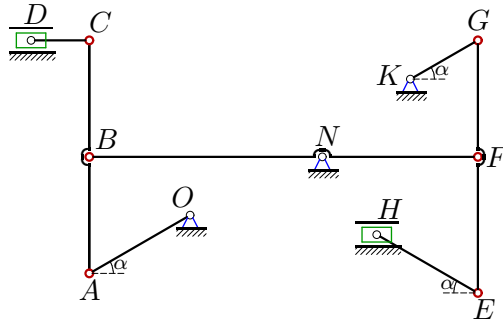
4



$\omega_{BF} = 3$ рад/с, $\alpha = 45^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 60$, $NF = 30$,
 $CD = 15$, $EH = 30$,
 $FE = 35$, $FG = 10$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.16.

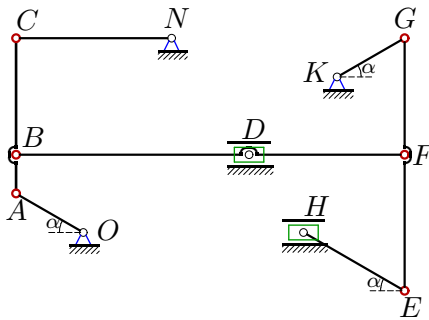
4



$\omega_{OA} = 2$ рад/с, $\alpha = 30^\circ$,
 $AB = 30$, $BC = 30$,
 $NB = 60$, $NF = 40$,
 $CD = 15$, $EH = 30$,
 $FE = 35$, $FG = 30$,
 $OA = 30$, $KG = 20$.
 a_A , a_B , a_C - ?

Задача K9.17.

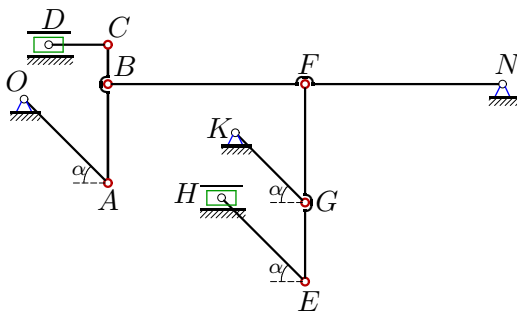
4



$\omega_{OA} = 4$ рад/с, $\alpha = 30^\circ$,
 $AB = 10$, $BC = 30$,
 $DB = 60$, $DF = 40$,
 $NC = 40$, $EH = 30$,
 $FE = 35$, $FG = 30$,
 $OA = 20$, $KG = 20$.
 a_A , a_B , a_C - ?

Задача K9.18.

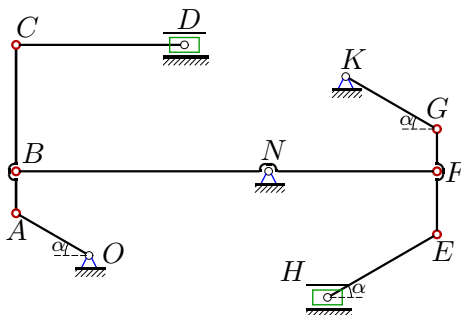
4



$\omega_{NB} = 1$ рад/с, $\alpha = 45^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 50$, $NF = 50$,
 $CD = 15$, $EH = 30$,
 $FG = 30$, $GE = 20$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.19.

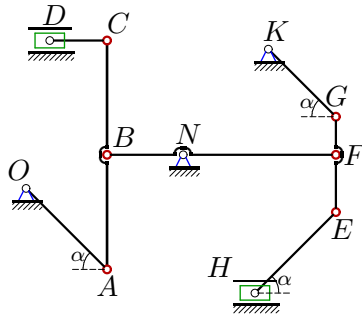
4



$\omega_{KG} = 1$ рад/с, $\alpha = 30^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 60$, $NF = 40$,
 $CD = 40$, $EH = 30$,
 $FE = 15$, $FG = 10$,
 $OA = 20$, $KG = 25$.
 a_G , a_F , a_E - ?

Задача K9.20.

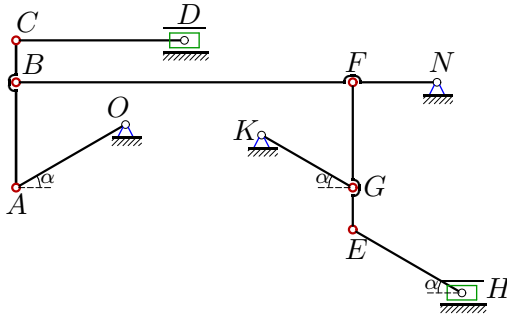
4



$\omega_{OA} = 1$ рад/с, $\alpha = 45^\circ$,
 $AB = 30$, $BC = 30$,
 $NB = 20$, $NF = 40$,
 $CD = 15$, $EH = 30$,
 $FE = 15$, $FG = 10$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.21.

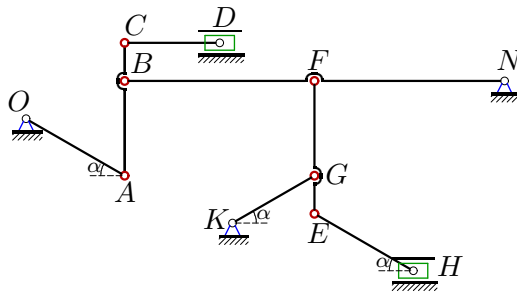
4



$\omega_{KG} = 2$ рад/с, $\alpha = 30^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 80$, $NF = 20$,
 $CD = 40$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 30$, $KG = 25$.
 a_G , a_F , a_E - ?

Задача K9.22.

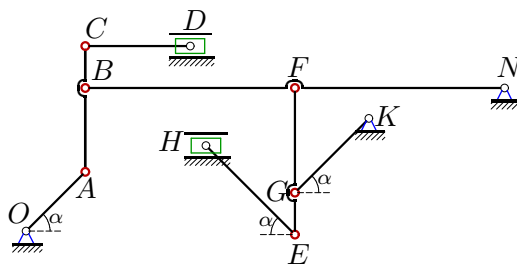
4



$\omega_{OA} = 3$ рад/с, $\alpha = 30^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 50$, $NF = 50$,
 $CD = 25$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.23.

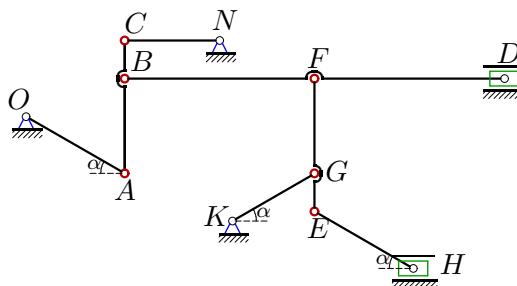
4



$\omega_{OA} = 1$ рад/с, $\alpha = 45^\circ$,
 $AB = 20$, $BC = 10$,
 $BF = 50$, $NF = 50$,
 $CD = 25$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.24.

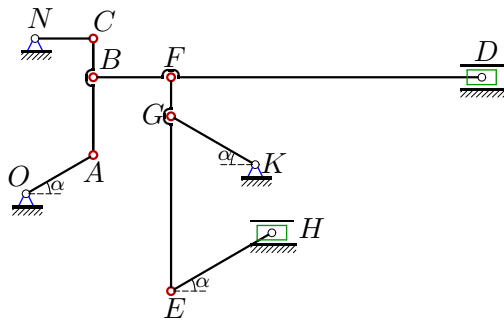
4



$\omega_{OA} = 3$ рад/с, $\alpha = 30^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 50$, $FD = 50$,
 $NC = 25$, $EH = 30$,
 $FE = 35$, $FG = 25$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача К9.30.

4



$\omega_{OA} = 2 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 20, BC = 10,$
 $BF = 20, FD = 80,$
 $NC = 15, EH = 30,$
 $FE = 55, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

К9 Ответы.
Кинематический анализ механизма (7 звеньев)

04.04.2012

№	v_A	v_B	v_C	v_D	v_E	v_F	v_G	v_H
1	30.000	25.981	30.000	15.000	17.185	12.990	15.000	18.750
2	100.000	86.603	90.139	25.000	99.875	43.301	50.000	65.000
3	461.880	400.000	416.333	115.470	102.866	80.000	92.376	110.851
4	115.470	101.835	100.000	19.245	59.753	53.576	57.735	61.584
5	92.376	87.178	80.000	34.641	240.069	52.915	46.188	213.620
6	30.000	27.042	25.981	7.500	15.000	15.000	15.000	0.000
7	60.000	54.083	51.962	15.000	58.125	41.758	45.000	65.625
8	30.000	25.981	30.000	15.000	16.987	15.588	18.000	2.250
9	80.000	69.282	138.564	120.000	68.739	51.962	60.000	15.000
10	40.000	29.814	28.284	9.428	21.375	16.997	20.000	1.886
11	100.000	86.603	100.000	50.000	54.083	51.962	60.000	15.000
12	62.500	44.194	47.599	17.678	60.828	35.355	50.000	84.853
13	282.843	200.000	223.607	100.000	194.365	100.000	141.421	66.667
14	212.132	150.000	474.342	450.000	327.605	90.000	127.279	225.000
15	254.558	180.000	569.210	540.000	327.605	90.000	127.279	225.000
16	60.000	51.962	60.000	30.000	41.767	34.641	40.000	3.333
17	80.000	75.498	69.282	30.000	57.287	55.076	53.333	60.556
18	141.421	100.000	107.703	40.000	97.183	50.000	70.711	33.333
19	37.500	32.476	64.952	56.250	28.641	21.651	25.000	6.250
20	30.000	21.213	30.000	21.213	76.485	42.426	60.000	21.213
21	250.000	216.506	222.205	50.000	55.678	43.301	50.000	10.000
22	90.000	77.942	79.994	18.000	50.110	38.971	45.000	54.000
23	20.000	14.142	15.811	7.071	12.166	7.071	10.000	16.971
24	90.000	78.996	77.942	12.857	53.493	41.037	45.000	59.143
25	333.333	235.702	745.356	707.107	257.391	70.711	100.000	318.198
26	17.321	16.346	15.000	6.495	28.312	12.990	12.990	19.486
27	339.411	268.328	240.000	120.000	967.471	169.706	169.706	840.000
28	51.962	49.038	45.000	19.486	40.562	22.500	12.990	45.466
29	40.000	35.277	34.641	6.667	25.465	18.559	20.000	8.667
30	40.000	35.277	34.641	6.667	121.211	28.503	32.000	134.000

N_0	ω_{OA}	ω_{CA}	ω_{CD}	ω_{BF}	ω_{FE}	ω_{KG}	ω_{EH}	ω_{NC}	a_A	a_B	a_C	a_E	a_F	a_G
1	1.000	0.500	0.650	0.433	-0.750	0.600	-0.500	-	0.300	0.135	0.035	-	-	-
2	5.000	-2.500	5.774	-0.866	-2.500	2.000	1.667	-	-	-	-	4.244	1.186	1.000
3	23.094	-11.547	10.000	4.000	-1.848	3.695	-3.079	-	141.107	16.000	47.204	-	-	-
4	-5.774	1.925	-	1.000	0.385	-2.309	1.925	4.000	8.413	0.387	4.000	-	-	-
5	4.619	-1.155	-	1.333	-5.774	1.848	-1.540	2.000	5.262	4.344	1.600	-	-	-
6	1.000	0.250	-	0.433	0.000	-0.600	0.500	-1.732	0.300	0.162	0.464	-	-	-
7	2.000	0.500	-	-2.598	1.875	1.800	1.500	3.464	1.200	1.514	1.855	-	-	-
8	1.000	0.500	-0.520	-0.520	0.450	0.720	-0.600	-	0.300	0.154	0.530	-	-	-
9	4.000	-4.000	4.619	-3.464	-3.000	2.400	2.000	-	3.200	4.000	19.619	-	-	-
10	2.000	-0.943	-	-0.283	-0.189	-0.800	0.667	-1.131	0.800	0.744	0.892	-	-	-
11	-3.333	-1.667	2.165	1.732	1.000	3.000	-2.000	-	-	-	-	0.727	1.082	1.800
12	-2.083	-1.768	0.737	0.442	1.414	2.000	1.667	-	-	-	-	1.297	0.259	1.000
13	14.142	-10.000	8.000	2.000	3.333	5.657	4.714	-	79.137	4.000	33.798	-	-	-
14	-10.607	15.000	3.000	3.000	9.000	-5.091	4.243	-	58.795	4.500	193.139	-	-	-
15	12.728	-18.000	-12.000	3.000	-9.000	5.091	-4.243	-	84.665	5.400	234.186	-	-	-
16	2.000	1.000	-3.464	0.866	0.667	2.000	1.333	-	1.200	0.541	0.139	-	-	-
17	4.000	-1.000	-	1.155	-0.111	2.667	1.778	1.732	3.200	2.924	2.332	-	-	-
18	-4.714	-4.000	-6.667	1.000	-1.667	-2.828	-2.357	-	6.743	1.000	3.913	-	-	-
19	1.875	-1.875	0.812	0.541	-1.250	1.000	0.833	-	-	-	-	0.517	0.305	0.250
20	1.000	0.707	1.414	-1.061	4.243	-2.400	-2.000	-	0.300	0.233	0.668	-	-	-
21	-8.333	-5.000	-5.413	-2.165	1.000	2.000	-1.667	-	-	-	-	1.697	0.970	1.000
22	3.000	1.800	-3.118	-0.779	-0.900	1.800	-1.500	-	2.700	0.813	1.799	-	-	-
23	1.000	-0.707	-0.566	-0.141	-0.283	-0.400	0.333	-	0.200	0.242	0.308	-	-	-
24	3.000	1.286	-	-0.779	-1.414	1.800	-1.500	-3.118	2.700	1.420	2.550	-	-	-
25	16.667	-23.570	-4.714	-4.714	-7.071	4.000	3.333	-	-	-	-	35.518	8.509	4.000
26	0.866	-0.217	-	-0.750	-1.299	0.520	0.433	1.000	0.185	0.176	0.150	-	-	-
27	11.314	4.000	-	4.000	24.000	-6.788	5.657	4.000	45.725	27.574	9.600	-	-	-
28	-2.598	0.650	-	-0.750	1.299	0.520	0.433	3.000	1.665	0.914	1.350	-	-	-
29	2.000	-0.667	-	-0.346	-0.333	0.800	0.667	2.309	0.800	0.907	0.961	-	-	-
30	2.000	-0.667	-	-0.346	2.267	-1.280	-1.067	2.309	0.800	0.907	0.961	-	-	-