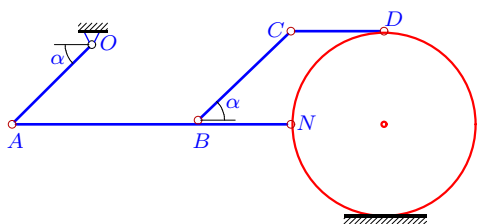# Кинематический анализ плоского механизма

В указанном положении механизма задана угловая скорость одного из звеньев. Длины звеньев даны в сантиметрах. Стержни, направление которых не указано, считать горизонтальными или вертикальными. Диск катится по горизонтальной поверхности без проскальзывания. Найти угловые скорости всех звеньев механизма.
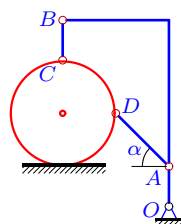
Задача К-26.1. *13*

$\omega_{OA_z} = 7c^{-1}$, $R = 7$, $OA = 6\sqrt{2}$,
$AB = 14$, $BN = 7$, $BC = 7\sqrt{2}$, $CD = 7$, $\alpha=45°$
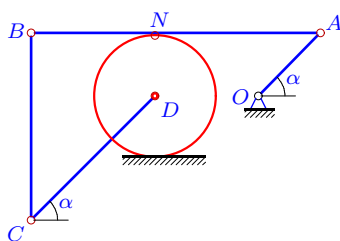
Задача К-26.2. *13*

$\omega_{OA_z} = 8c^{-1}$, $R = 4$, $OA = 3$,
$AD = 4\sqrt{2}$, $BC = 3$, $\alpha = 45°$.
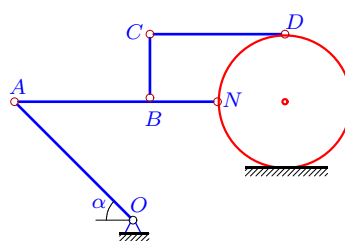
Задача К-26.3. *13*

$\omega_{OA_z} = 24c^{-1}$, $R = 6$, $OA = 6\sqrt{2}$,
$CD = 12\sqrt{2}$, $AN = 16$, $AB = 28$, $\alpha = 45°$.
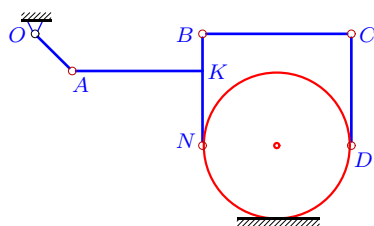
Задача К-26.4. *13*

$\omega_{OA_z} = 8c^{-1}$, $R = 4$, $OA = 7\sqrt{2}$,
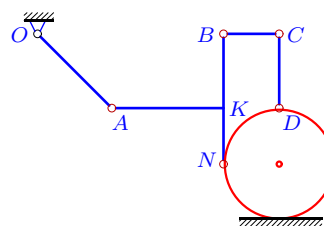$AB = 8$, $BN = BC = 4$, $CD = 8$, $\alpha=45°$

Задача К-26.5. *13*

$\omega_{OA_z} = 2c^{-1}$, $R = 4$, $OA = 2\sqrt{2}$,
$AK = 7$, $BK = 2$, $KN = 4$, $CD = 6$, $\alpha = 45°$.
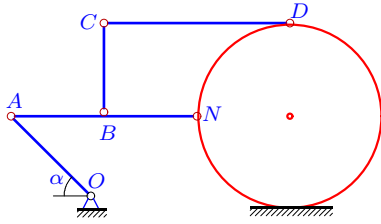
Задача К-26.6. *13*

$\omega_{OA_z} = 3c^{-1}$, $R = 3$, $OA = 4\sqrt{2}$,
$AK = 6$, $BK = 4$, $KN = 3$, $CD = 4$, $\alpha = 45°$.

Задача К-26.7.
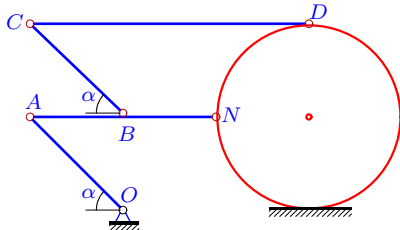
$\omega_{OA_z} = 7c^{-1}$, $R = 7$, $OA = 6\sqrt{2}$,
$AB = 7$, $BN = BC = 7$, $CD = 14$, $\alpha = 45°$

Задача К-26.8.

$\omega_{OA_z} = 1c^{-1}$, $R = 4$, $OA = 4\sqrt{2}$,
$AB = 5\sqrt{2}$, $AD = 4$, $\alpha = 45°$.

Задача К-26.9.
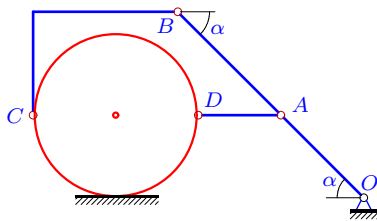
$\omega_{OA_z} = 3c^{-1}$, $R = 6$, $OA = 6\sqrt{2}$,
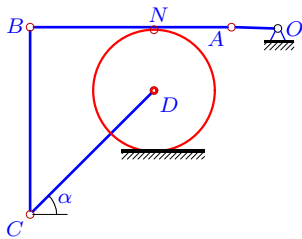$AB = 6$, $BN = 6$, $BC = 6\sqrt{2}$, $CD = 18$, $\alpha = 45°$

Задача К-26.10.

$\omega_{OA_z} = 3c^{-1}$, $R = 6$, $OA = 4\sqrt{2}$,
$CD = 6\sqrt{2}$, $AN = 12$, $AB = 24$, $\alpha = 45°$.

Задача К-26.11.

$\omega_{OA_z} = 1c^{-1}$, $R = 4$, $OA = 4\sqrt{2}$,
$AB = 5\sqrt{2}$, $AD = 4$, $\alpha = 45°$.

Задача К-26.12.

$\omega_{OA_z} = 28c^{-1}$, $R = 7$, $OA = 3$,
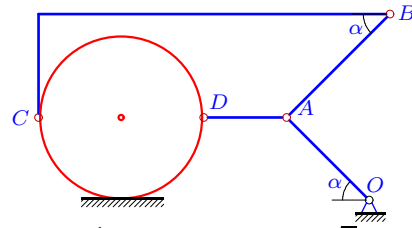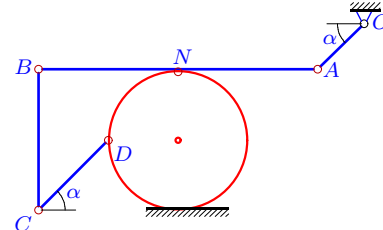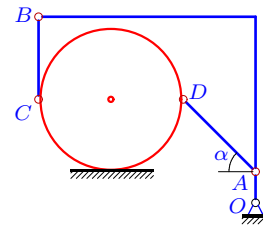$AD = 7\sqrt{2}$, $BC = 8$, $\alpha = 45°$.

Задача К-26.13.

$\omega_{OA_z} = 5c^{-1}$, $R = 8$, $OA = 6$,
$CD = 16\sqrt{2}$, $AN = 10$, $AB = 26$, $\alpha = 45°$.

Задача К-26.14.

$\omega_{OA_z} = 1c^{-1}$, $R = 4$, $OA = 4\sqrt{2}$,
$AK = 7$, $BK = 4$, $KN = 4$, $CD = 8$, $\alpha = 45°$.

Задача К-26.15.

$\omega_{OA_z} = 12c^{-1}$, $R = 6$, $OA = 5\sqrt{2}$,
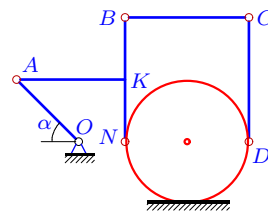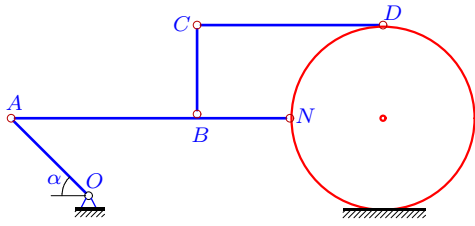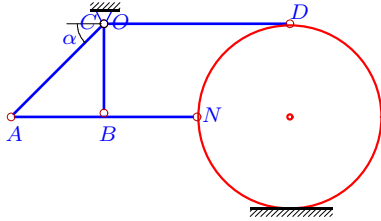$AB = 12$, $BN = BC = 6$, $CD = 12$, $\alpha = 45°$

Задача К-26.16.

$\omega_{OA_z} = 7c^{-1}$, $R = 7$, $OA = 4$,
$AD = 7\sqrt{2}$, $BC = 2$, $\alpha = 45°$.

Задача К-26.17.
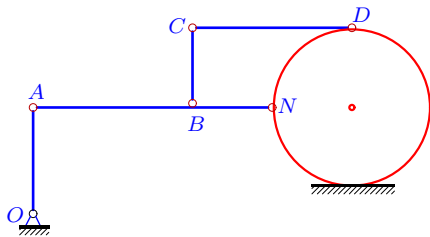
$\omega_{OA_z} = 1c^{-1}$, $R = 5$, $OA = 5\sqrt{2}$,
$AB = 5$, $BN = BC = 5$, $CD = 10$, $\alpha = 45°$

Задача К-26.18.

$\omega_{OA_z} = 4c^{-1}$, $R = 4$, $OA = 3\sqrt{2}$,
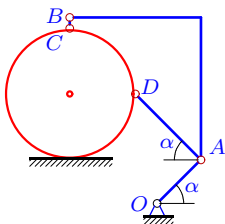$AB = 4$, $BN = 4$, $BC = 4\sqrt{2}$, $CD = 4$, $\alpha = 45°$

Задача К-26.19.

$\omega_{OA_z} = 9c^{-1}$, $R = 6$, $OA = 8$,
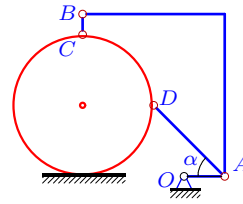$AB = 12$, $BN = BC = 6$, $CD = 12$.

Задача К-26.20.

$\omega_{OA_z} = 5c^{-1}$, $R = 5$, $OA = 7\sqrt{2}$,
$AB = 5$, $BN = 5$, $BC = 5\sqrt{2}$, $CD = 5$, $\alpha = 45°$

Задача К-26.21.

$\omega_{OA_z} = 3c^{-1}$, $R = 6$, $OA = 4\sqrt{2}$,
$AD = 6\sqrt{2}$, $BC = 1$, $\alpha = 45°$.

Задача К-26.22.

$\omega_{OA_z} = 3c^{-1}$, $R = 7$, $OA = 7\sqrt{2}$,
$AB = 8\sqrt{2}$, $AD = 7$, $\alpha = 45°$.

Задача К-26.23. 13

$\omega_{OA_z} = 4c^{-1}$, $R = 6$, $OA = 3\sqrt{2}$,
$AK = 9$, $BK = 4$, $KN = 6$, $CD = 4$, $\alpha = 45°$.

Задача К-26.24. 13

$\omega_{OA_z} = 21c^{-1}$, $R = 7$, $OA = 5$,
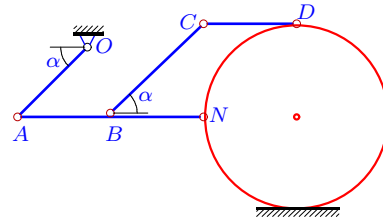$AB = 14$, $BN = 7$, $BC = 7\sqrt{2}$, $CD = 7$, $\alpha = 45°$

Задача К-26.25. 13

$\omega_{OA_z} = 21c^{-1}$, $R = 7$, $OA = 4$,
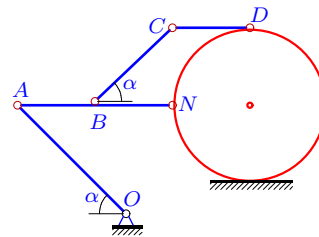$AD = 7\sqrt{2}$, $BC = 8$, $\alpha = 45°$.

Задача К-26.26. 13

$\omega_{OA_z} = 1c^{-1}$, $R = 6$, $OA = 6\sqrt{2}$,
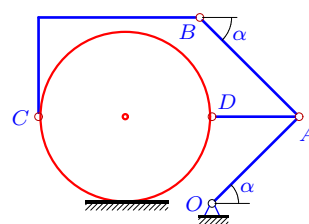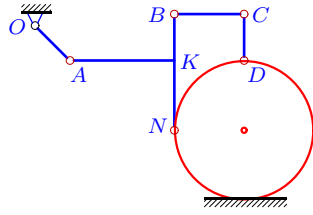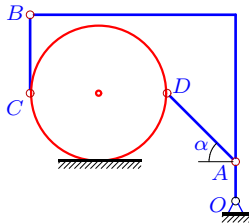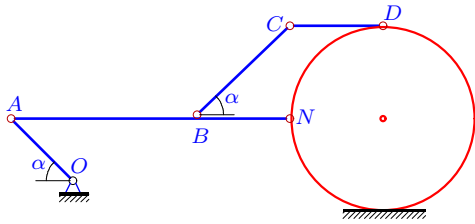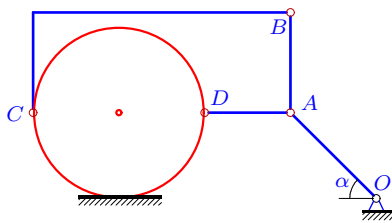$AB = 6$, $BN = BC = 6$, $CD = 12$, $\alpha = 45°$

Задача К-26.27. 13

$\omega_{OA_z} = 3c^{-1}$, $R = 6$, $OA = 4\sqrt{2}$,
$AB = 12$, $BN = 6$, $BC = 6\sqrt{2}$, $CD = 6$, $\alpha = 45°$

Задача К-26.28. 13

$\omega_{OA_z} = 3c^{-1}$, $R = 4$, $OA = 4\sqrt{2}$,
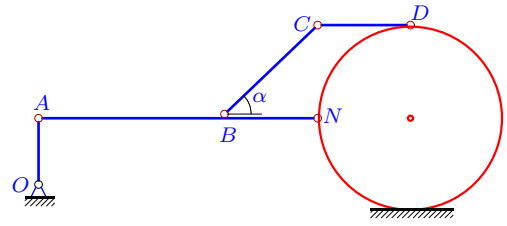$AB = 5$, $AD = 4$, $\alpha = 45°$.

Задача К-26.29. 13

$\omega_{OA_z} = 1c^{-1}$, $R = 6$, $OA = 6\sqrt{2}$,
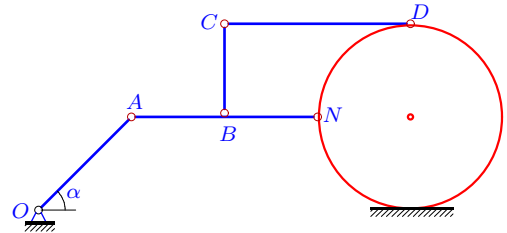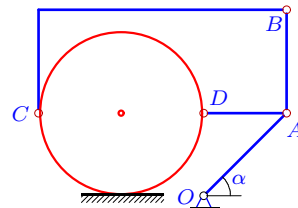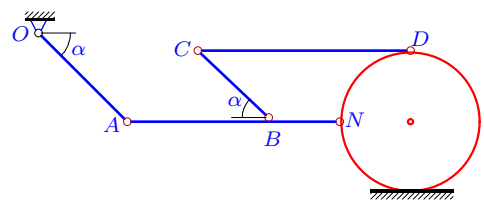$AB = 7$, $AD = 6$, $\alpha = 45°$.

Задача К-26.30. 13

$\omega_{OA_z} = 12c^{-1}$, $R = 4$, $OA = 5\sqrt{2}$,
$AB = 8$, $BN = 4$, $BC = 4\sqrt{2}$, $CD = 12$, $\alpha = 45°$

K-26 Ответы.
Кинематический анализ плоского механизма $\quad$ 12.05.2013

№	ω_{AB_z}	ω_{BC_z}	ω_{CD_z}	ω_{DA_z}	$\omega_{\text{диск}_z}$
1	4	-6	4	—	-6
2	0	0	—	-3	3
3	9	10	9	—	12
4	0	14	7	—	14
5	0	-1	0	—	-1
6	0	-4	3	—	-4
7	0	6	3	—	6
8	0	0	—	-2	1
9	0	3	2	—	3
10	-1	-1	-1	—	-1
11	0	0	—	-2	1
12	2	9	—	-6	6
13	-3	-2	-3	—	0
14	0	1	0	—	1
15	0	10	5	—	10
16	2	2	—	2	2
17	1	-1	0	—	-1
18	3	-3	3	—	-3
19	-4	12	4	—	12
20	0	7	0	—	7
21	1	1	—	0	2
22	2	2	—	0	3
23	0	-2	3	—	-2
24	-5	15	-5	—	15
25	2	9	—	-6	6
26	-1	1	0	—	1
27	0	2	0	—	2
28	2	2	—	0	3
29	0	0	—	-2	1
30	0	-15	-10	—	-15

К-26 файл $\quad$ o26k13A