

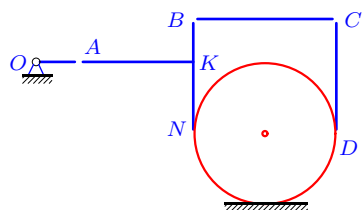
Кинематический анализ плоского механизма

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.

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)

Задача К-26.1.

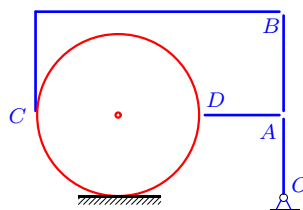
a0214 Андронов Антон



$$\omega_{OA_z} = 1c^{-1}, R = 5, OA = 3, \\ AK = 8, BK = 3, KN = 5, CD = 8.$$

Задача К-26.2.

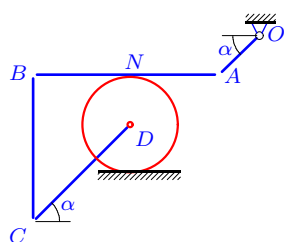
a0214 Глозман Игорь



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

Задача К-26.3.

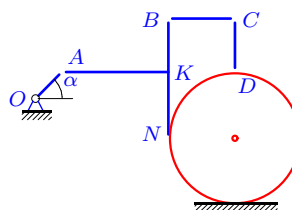
a0214 Двойникова Надя



$$\omega_{OA_z} = 396c^{-1}, R = 6, OA = 5\sqrt{2}, \\ CD = 12\sqrt{2}, AN = 11, AB = 23, \alpha = 45^\circ.$$

Задача К-26.4.

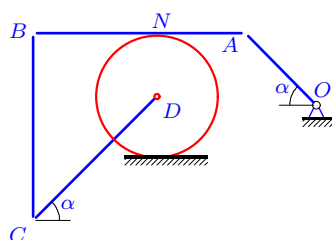
a0214 Елиин Дмитрий



$$\omega_{OA_z} = 30c^{-1}, R = 5, OA = 2\sqrt{2}, \\ AK = 8, BK = 4, KN = 5, CD = 4, \alpha = 45^\circ.$$

Задача К-26.5.

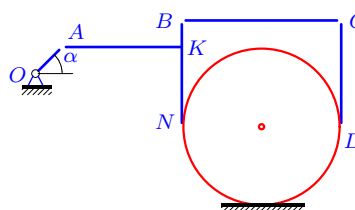
a0214 Кузин Ян



$$\omega_{OA_z} = 35c^{-1}, R = 7, OA = 8\sqrt{2}, \\ CD = 14\sqrt{2}, AN = 10, AB = 24, \alpha = 45^\circ.$$

Задача К-26.6.

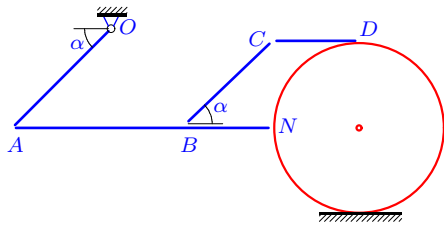
a0214 Мазуркевич Сергей



$$\omega_{OA_z} = 3c^{-1}, R = 6, OA = 2\sqrt{2}, \\ AK = 9, BK = 2, KN = 6, CD = 8, \alpha = 45^\circ.$$

Задача К-26.7.

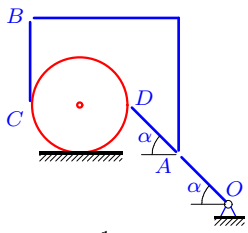
a0214 Млюкова Юлия



$\omega_{OA_z} = 21c^{-1}$, $R = 7$, $OA = 8\sqrt{2}$,
 $AB = 14$, $BN = 7$, $BC = 7\sqrt{2}$, $CD = 7$, $\alpha = 45^\circ$

Задача К-26.9.

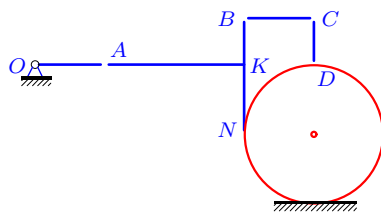
a0214 Никольский Михаил



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

Задача К-26.11.

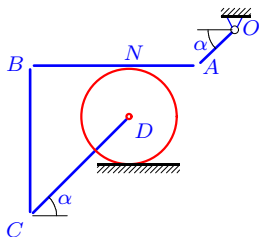
a0214 Нургалин Рамазан



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

Задача К-26.13.

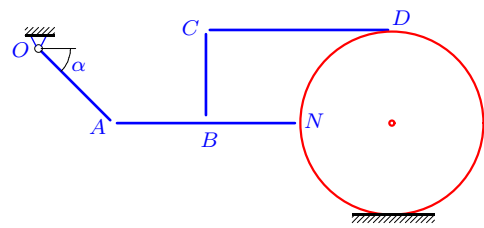
a0214 Поздняков Илья



$\omega_{OA_z} = 88c^{-1}$, $R = 8$, $OA = 6\sqrt{2}$,
 $CD = 16\sqrt{2}$, $AN = 11$, $AB = 27$, $\alpha = 45^\circ$.

Задача К-26.8.

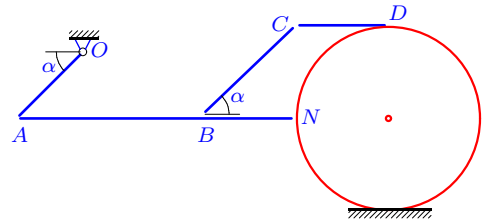
a0214 Наумов Иван



$\omega_{OA_z} = 5c^{-1}$, $R = 5$, $OA = 4\sqrt{2}$,
 $AB = 5$, $BN = BC = 5$, $CD = 10$, $\alpha = 45^\circ$

Задача К-26.10.

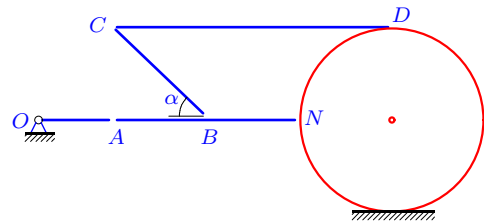
a0214 Новиков Даниил



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

Задача К-26.12.

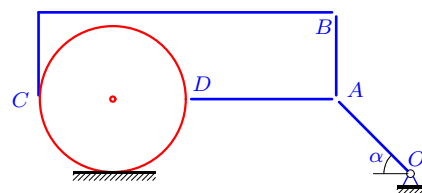
a0214 Парфенова Ольга



$\omega_{OA_z} = 15c^{-1}$, $R = 5$, $OA = 4$,
 $AB = 5$, $BN = 5$, $BC = 5\sqrt{2}$, $CD = 15$, $\alpha = 45^\circ$

Задача К-26.14.

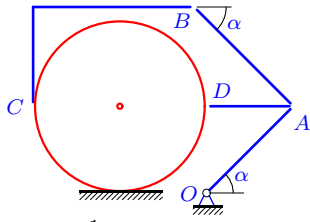
a0214 Синицын Александр



$\omega_{OA_z} = 1c^{-1}$, $R = 6$, $OA = 6\sqrt{2}$,
 $AB = 7$, $AD = 12$, $\alpha = 45^\circ$.

Задача К-26.15.

а0214 Соболева Алиса

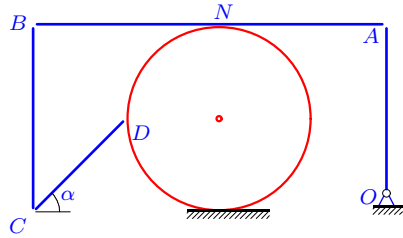


$$\omega_{OA_z} = 3c^{-1}, R = 7, OA = 7\sqrt{2},$$

$$AB = 8\sqrt{2}, AD = 7, \alpha = 45^\circ.$$

Задача К-26.17.

а0214 Федоринов Евгений

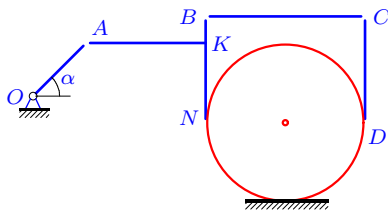


$$\omega_{OA_z} = 10c^{-1}, R = 5, OA = 9,$$

$$CD = 5\sqrt{2}, AN = 9, AB = 19, \alpha = 45^\circ.$$

Задача К-26.19.

а0214 Богомолов Дмитрий

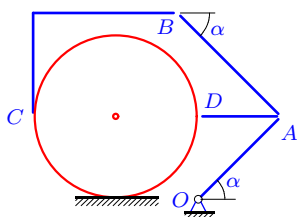


$$\omega_{OA_z} = 3c^{-1}, R = 6, OA = 4\sqrt{2},$$

$$AK = 9, BK = 2, KN = 6, CD = 8, \alpha = 45^\circ.$$

Задача К-26.21.

а0214 Гулак Кирилл

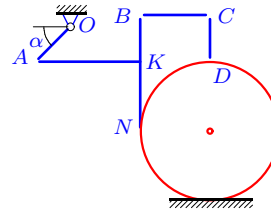


$$\omega_{OA_z} = 3c^{-1}, R = 4, OA = 4\sqrt{2},$$

$$AB = 5\sqrt{2}, AD = 4, \alpha = 45^\circ.$$

Задача К-26.16.

а0214 Туркин Павел

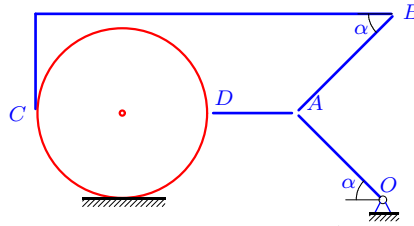


$$\omega_{OA_z} = 4c^{-1}, R = 6, OA = 3\sqrt{2},$$

$$AK = 9, BK = 4, KN = 6, CD = 4, \alpha = 45^\circ.$$

Задача К-26.18.

а0214 Чащина Дарья

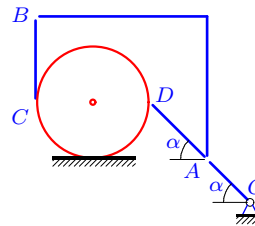


$$\omega_{OA_z} = 1c^{-1}, R = 7, OA = 7\sqrt{2},$$

$$AB = 8\sqrt{2}, AD = 7, \alpha = 45^\circ.$$

Задача К-26.20.

а0214 Герциу Глеб

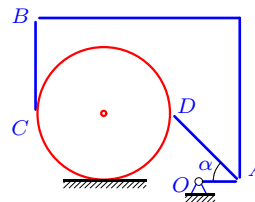


$$\omega_{OA_z} = 12c^{-1}, R = 4, OA = 3\sqrt{2},$$

$$AD = 4\sqrt{2}, BC = 6, \alpha = 45^\circ.$$

Задача К-26.22.

а0214 Крупин Никита

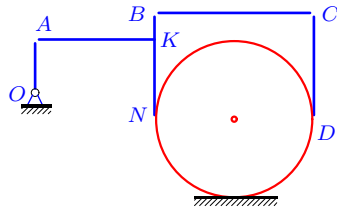


$$\omega_{OA_z} = 10c^{-1}, R = 5, OA = 3,$$

$$AD = 5\sqrt{2}, BC = 7, \alpha = 45^\circ.$$

Задача К-26.23.

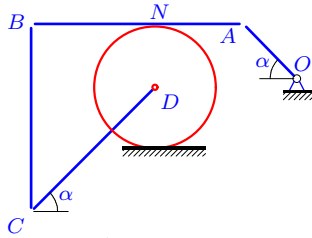
a0214 Мамонов Андрей



$$\omega_{OA_z} = 3c^{-1}, R = 6, OA = 4, \\ AK = 9, BK = 2, KN = 6, CD = 8.$$

Задача К-26.25.

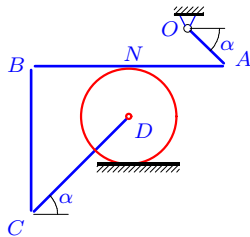
a0214 Денисов Евгений



$$\omega_{OA_z} = 35c^{-1}, R = 7, OA = 6\sqrt{2}, \\ CD = 14\sqrt{2}, AN = 10, AB = 24, \alpha = 45^\circ.$$

Задача К-26.27.

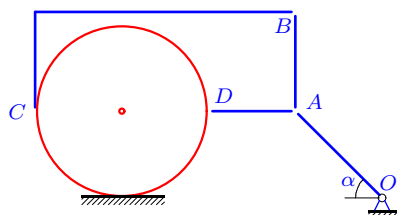
a0214 фио1



$$\omega_{OA_z} = 15c^{-1}, R = 5, OA = 4\sqrt{2}, \\ CD = 10\sqrt{2}, AN = 10, AB = 20, \alpha = 45^\circ.$$

Задача К-26.29.

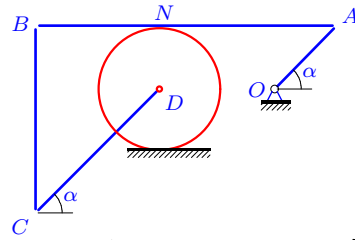
a0214 фио3



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

Задача К-26.24.

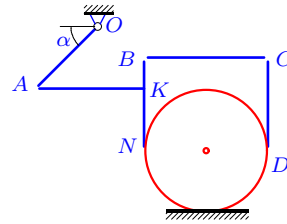
a0214 Рыжов Александр



$$\omega_{OA_z} = 20c^{-1}, R = 7, OA = 7\sqrt{2}, \\ CD = 14\sqrt{2}, AN = 20, AB = 34, \alpha = 45^\circ.$$

Задача К-26.26.

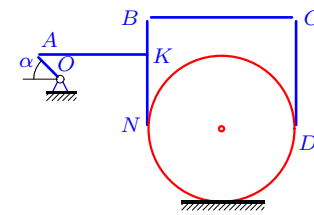
a0214 Титов Дмитрий



$$\omega_{OA_z} = 3c^{-1}, R = 4, OA = 4\sqrt{2}, \\ AK = 7, BK = 2, KN = 4, CD = 6, \alpha = 45^\circ.$$

Задача К-26.28.

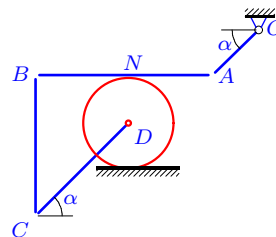
a0214 фио2



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

Задача К-26.30.

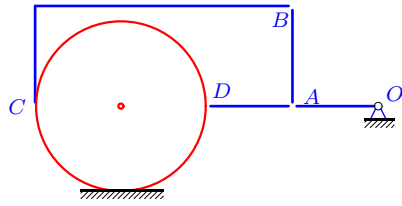
a0214 фио4



$$\omega_{OA_z} = 54c^{-1}, R = 5, OA = 5\sqrt{2}, \\ CD = 10\sqrt{2}, AN = 9, AB = 19, \alpha = 45^\circ.$$

Задача К-26.31.

a0214 фио5

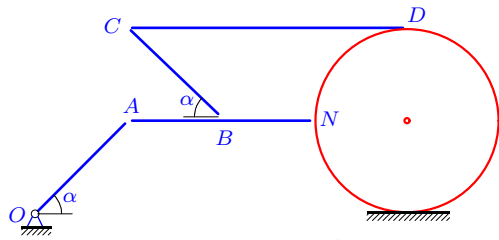


$$\omega_{OA_z} = 3c^{-1}, R = 6, OA = 6,$$

$$AB = 7, AD = 6.$$

Задача К-26.33.

a0214 фио7

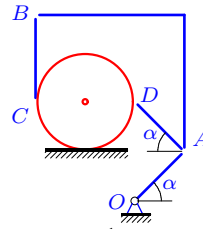


$$\omega_{OA_z} = 3c^{-1}, R = 4, OA = 4\sqrt{2},$$

$$AB = 4, BN = 4, BC = 4\sqrt{2}, CD = 12, \alpha = 45^\circ$$

Задача К-26.32.

a0214 фио6

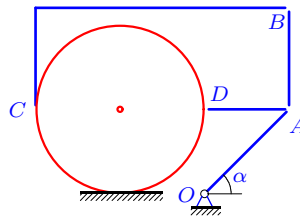


$$\omega_{OA_z} = 21c^{-1}, R = 4, OA = 4\sqrt{2},$$

$$AD = 4\sqrt{2}, BC = 7, \alpha = 45^\circ.$$

Задача К-26.34.

a0214 фио8



$$\omega_{OA_z} = 3c^{-1}, R = 5, OA = 5\sqrt{2},$$

$$AB = 6, AD = 5, \alpha = 45^\circ.$$