

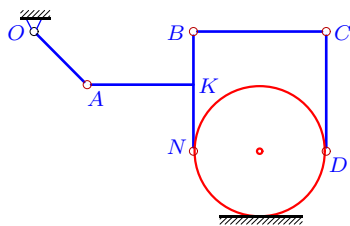
Кинематический анализ плоского механизма

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.

Акперов Эмиль

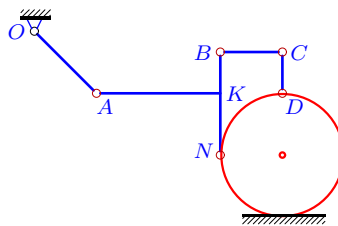


$$\omega_{OA_z} = 5c^{-1}, R = 5, OA = 4\sqrt{2},$$

$$AK = 8, BK = 4, KN = 5, CD = 9, \alpha = 45^\circ.$$

Задача К-26.2.

Алексеев Максим

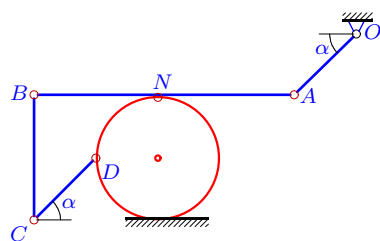


$$\omega_{OA_z} = 2c^{-1}, R = 3, OA = 3\sqrt{2},$$

$$AK = 6, BK = 2, KN = 3, CD = 2, \alpha = 45^\circ.$$

Задача К-26.3.

Архипова Евгения

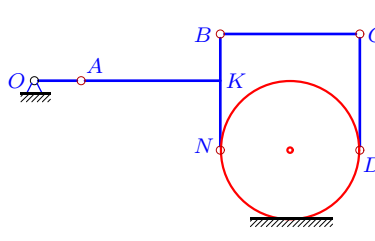


$$\omega_{OA_z} = 22c^{-1}, R = 5, OA = 5\sqrt{2},$$

$$CD = 5\sqrt{2}, AN = 11, AB = 21, \alpha = 45^\circ.$$

Задача К-26.4.

Борисов Илья

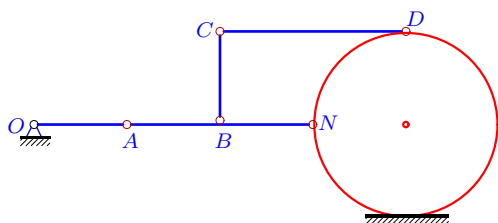


$$\omega_{OA_z} = 3c^{-1}, R = 3, OA = 2,$$

$$AK = 6, BK = 2, KN = 3, CD = 5.$$

Задача К-26.5.

Горюнов Антон

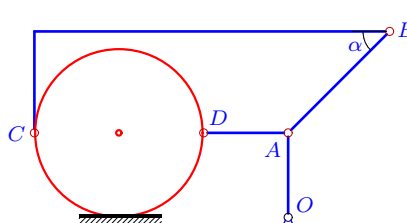


$$\omega_{OA_z} = 4c^{-1}, R = 6, OA = 6,$$

$$AB = 6, BN = BC = 6, CD = 12.$$

Задача К-26.6.

Давтян Инга

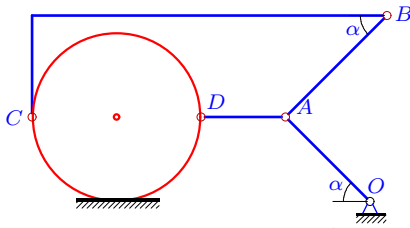


$$\omega_{OA_z} = 3c^{-1}, R = 5, OA = 5,$$

$$AB = 6\sqrt{2}, AD = 5, \alpha = 45^\circ.$$

Задача К-26.7.

Дядевич Дмитрий

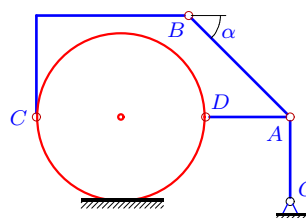


$$\omega_{OA_z} = 1c^{-1}, R = 5, OA = 5\sqrt{2},$$

$$AB = 6\sqrt{2}, AD = 5, \alpha = 45^\circ.$$

Задача К-26.8.

Ефимов Василий

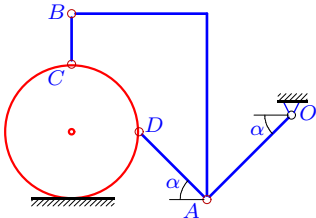


$$\omega_{OA_z} = 3c^{-1}, R = 5, OA = 5,$$

$$AB = 6\sqrt{2}, AD = 5, \alpha = 45^\circ.$$

Задача К-26.9.

Савельев Никита

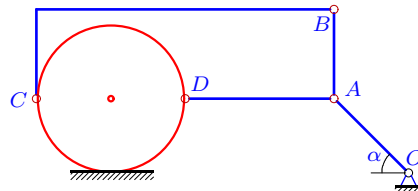


$$\omega_{OA_z} = 8c^{-1}, R = 4, OA = 5\sqrt{2},$$

$$AD = 4\sqrt{2}, BC = 3, \alpha = 45^\circ.$$

Задача К-26.10.

Захаров Алексей

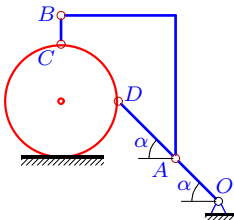


$$\omega_{OA_z} = 1c^{-1}, R = 5, OA = 5\sqrt{2},$$

$$AB = 6, AD = 10, \alpha = 45^\circ.$$

Задача К-26.11.

Золотых Дмитрий

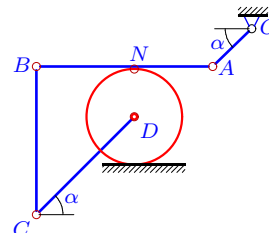


$$\omega_{OA_z} = 8c^{-1}, R = 4, OA = 3\sqrt{2},$$

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

Задача К-26.12.

Зубков Антон

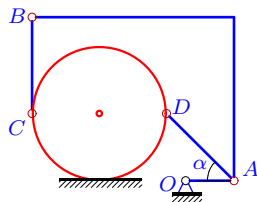


$$\omega_{OA_z} = 30c^{-1}, R = 5, OA = 4\sqrt{2},$$

$$CD = 10\sqrt{2}, AN = 8, AB = 18, \alpha = 45^\circ.$$

Задача К-26.13.

Зяблицын Даниил

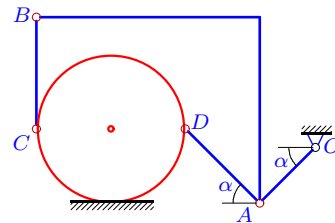


$$\omega_{OA_z} = 14c^{-1}, R = 7, OA = 5,$$

$$AD = 7\sqrt{2}, BC = 10, \alpha = 45^\circ.$$

Задача К-26.14.

Кирюхин Антон

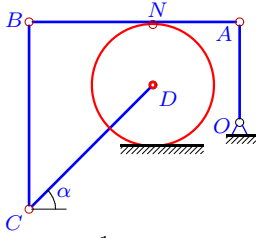


$$\omega_{OA_z} = 12c^{-1}, R = 4, OA = 3\sqrt{2},$$

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

Задача К-26.15.

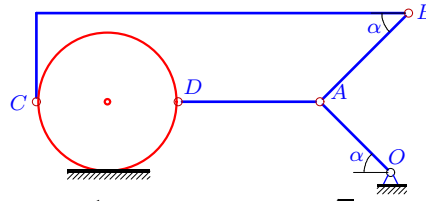
Мамонов Богдан



$\omega_{OA_z} = 15c^{-1}$, $R = 5$, $OA = 8$,
 $CD = 10\sqrt{2}$, $AN = 7$, $AB = 17$, $\alpha = 45^\circ$.

Задача К-26.16.

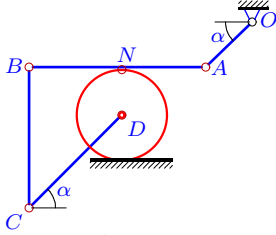
Молдареева Мария



$\omega_{OA_z} = 1c^{-1}$, $R = 4$, $OA = 4\sqrt{2}$,
 $AB = 5\sqrt{2}$, $AD = 8$, $\alpha = 45^\circ$.

Задача К-26.17.

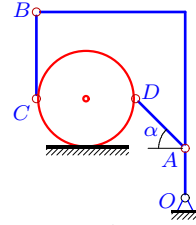
Морозов Максим



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

Задача К-26.18.

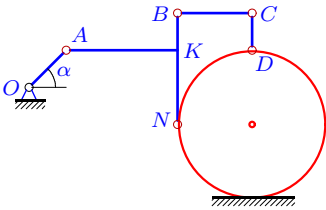
Мурушкин Сергей



$\omega_{OA_z} = 42c^{-1}$, $R = 4$, $OA = 4$,
 $AD = 4\sqrt{2}$, $BC = 7$, $\alpha = 45^\circ$.

Задача К-26.19.

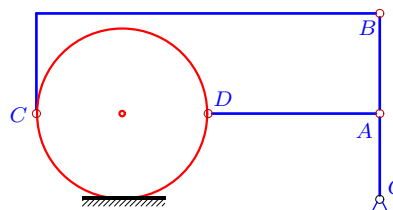
Обновленный Михаил



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

Задача К-26.20.

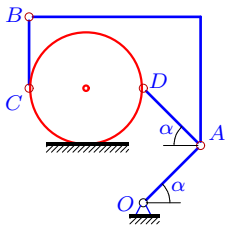
Султыгов Али



$\omega_{OA_z} = 4c^{-1}$, $R = 6$, $OA = 6$,
 $AB = 7$, $AD = 12$.

Задача К-26.21.

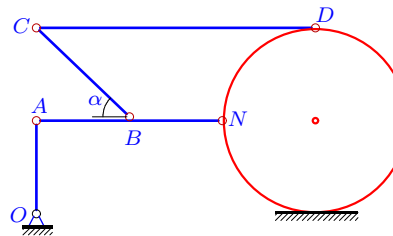
Сурков Вячеслав



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

Задача К-26.22.

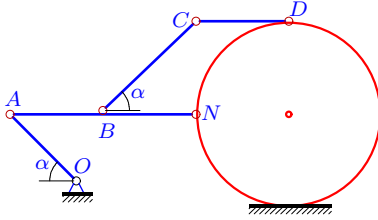
Суслов Даниил



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

Задача К-26.23.

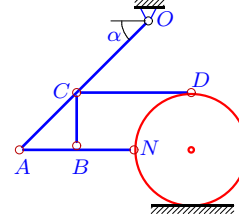
Сяскова Валерия



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

Задача К-26.24.

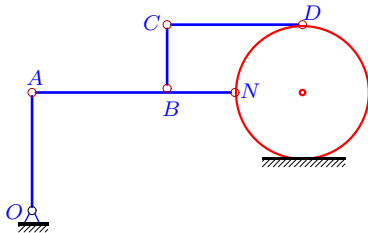
Фандеев Алексей



$\omega_{OA_z} = 4c^{-1}$, $R = 4$, $OA = 9\sqrt{2}$,
 $AB = 4$, $BN = BC = 4$, $CD = 8$, $\alpha = 45^\circ$

Задача К-26.25.

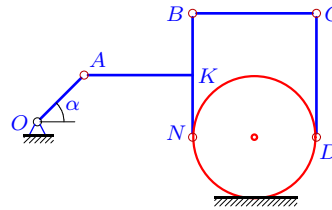
Цупенков Дмитрий



$\omega_{OA_z} = 12c^{-1}$, $R = 4$, $OA = 7$,
 $AB = 8$, $BN = BC = 4$, $CD = 8$.

Задача К-26.26.

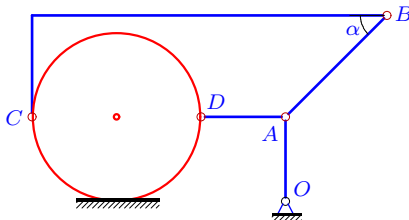
Чечнева Наталья



$\omega_{OA_z} = 4c^{-1}$, $R = 4$, $OA = 3\sqrt{2}$,
 $AK = 7$, $BK = 4$, $KN = 4$, $CD = 8$, $\alpha = 45^\circ$.

Задача К-26.27.

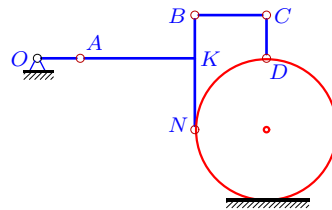
Чиждова Александра



$\omega_{OA_z} = 3c^{-1}$, $R = 5$, $OA = 5$,
 $AB = 6\sqrt{2}$, $AD = 5$, $\alpha = 45^\circ$.

Задача К-26.28.

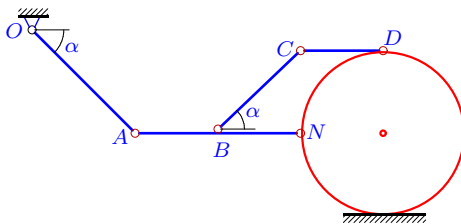
Шаронова Дарья



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

Задача К-26.29.

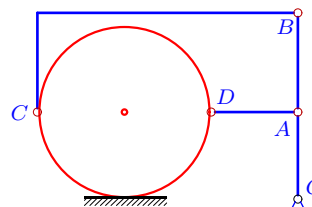
Шашелко Арсентий



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

Задача К-26.30.

Бондаренко Дарья



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

К-26

Ответы.

Кинематический анализ плоского механизма

09-Mar-16