

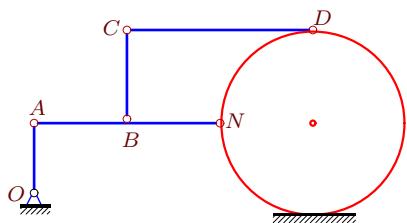
Кинематический анализ плоского механизма

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.

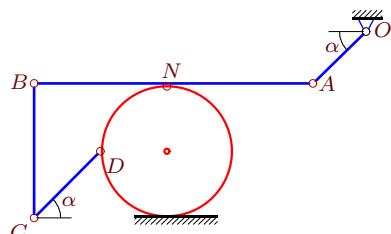
Акулина Даши



$$\omega_{OA_z} = 16 \text{ c}^{-1}, R = 4, OA = 3, AB = 4, BN = BC = 4, CD = 8.$$

Задача К-26.3.

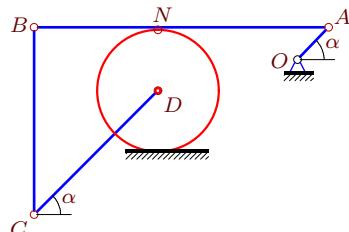
Баранов Максим



$$\omega_{OA_z} = 55 \text{ c}^{-1}, R = 5, OA = 4\sqrt{2}, CD = 5\sqrt{2}, AN = 11, AB = 21, \alpha = 45^\circ.$$

Задача К-26.5.

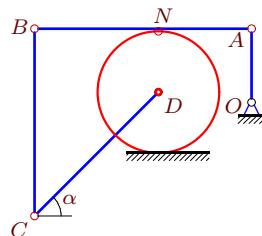
Биль Евгений



$$\omega_{OA_z} = 44 \text{ c}^{-1}, R = 8, OA = 4\sqrt{2}, CD = 16\sqrt{2}, AN = 22, AB = 38, \alpha = 45^\circ.$$

Задача К-26.2.

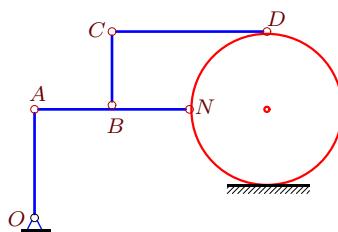
Анарбаев Б.



$$\omega_{OA_z} = 36 \text{ c}^{-1}, R = 6, OA = 7, CD = 12\sqrt{2}, AN = 9, AB = 21, \alpha = 45^\circ.$$

Задача К-26.4.

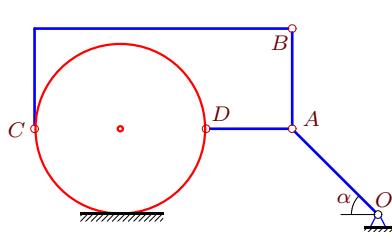
Бебирли Эмиль



$$\omega_{OA_z} = 20 \text{ c}^{-1}, R = 5, OA = 7, AB = 5, BN = BC = 5, CD = 10.$$

Задача К-26.6.

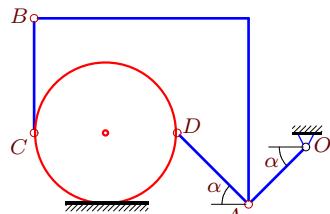
Волкобой Илья



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

Задача К-26.7.

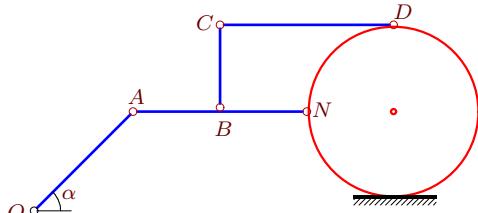
Глядяев А.Д.



$$\omega_{OA_z} = 15 \text{ c}^{-1}, R = 5, OA = 4\sqrt{2}, AD = 5\sqrt{2}, BC = 8, \alpha = 45^\circ.$$

Задача К-26.9.

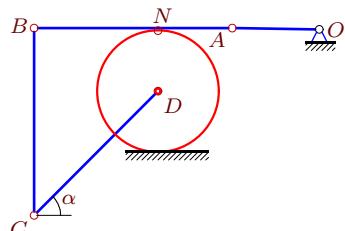
Губин Иван



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

Задача К-26.11.

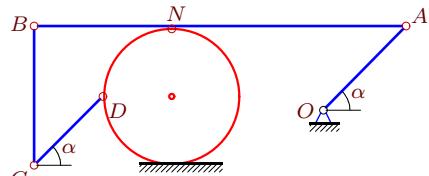
Исааков Александр



$$\omega_{OA_z} = 18 \text{ c}^{-1}, R = 5, OA = 7, CD = 10\sqrt{2}, AN = 6, AB = 16, \alpha = 45^\circ.$$

Задача К-26.13.

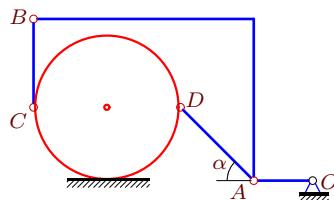
Костина Даши



$$\omega_{OA_z} = 85 \text{ c}^{-1}, R = 5, OA = 6\sqrt{2}, CD = 5\sqrt{2}, AN = 17, AB = 27, \alpha = 45^\circ.$$

Задача К-26.8.

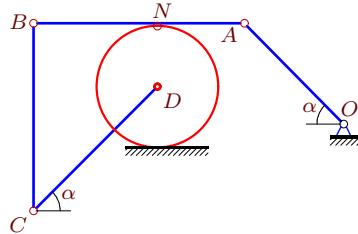
Горбатенко Егор



$$\omega_{OA_z} = 5 \text{ c}^{-1}, R = 5, OA = 4, AD = 5\sqrt{2}, BC = 6, \alpha = 45^\circ.$$

Задача К-26.10.

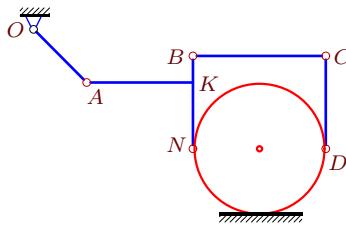
Драгин Егор



$$\omega_{OA_z} = 105 \text{ c}^{-1}, R = 5, OA = 8\sqrt{2}, CD = 10\sqrt{2}, AN = 7, AB = 17, \alpha = 45^\circ.$$

Задача К-26.12.

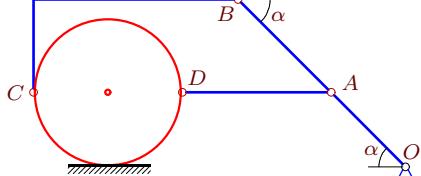
Картушкин Александр



$$\omega_{OA_z} = 5 \text{ c}^{-1}, R = 5, OA = 4\sqrt{2}, AK = 8, BK = 2, KN = 5, CD = 7, \alpha = 45^\circ.$$

Задача К-26.14.

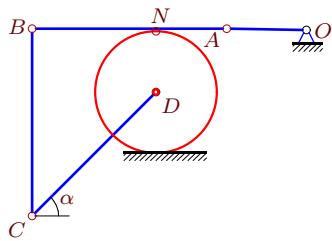
Лбова Александра



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

Задача К-26.15.

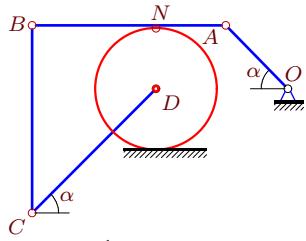
Муржи Николай



$$\omega_{OA_z} = 8c^{-1}, R = 7, OA = 9, CD = 14\sqrt{2}, AN = 8, AB = 22, \alpha = 45^\circ.$$

Задача К-26.17.

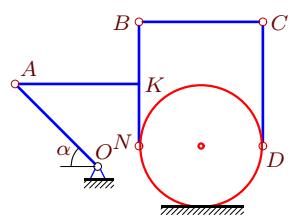
Новиков Павел



$$\omega_{OA_z} = 54c^{-1}, R = 8, OA = 8\sqrt{2}, CD = 16\sqrt{2}, AN = 9, AB = 25, \alpha = 45^\circ.$$

Задача К-26.19.

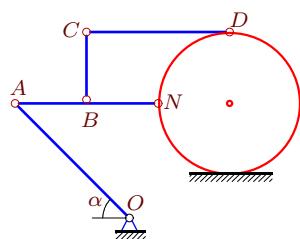
Оршак Сергей



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

Задача К-26.21.

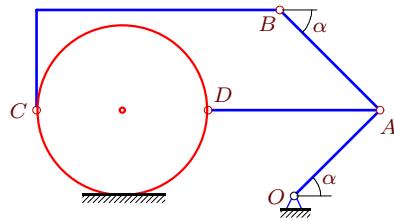
Парохин Антон



$$\omega_{OA_z} = 5c^{-1}, R = 5, OA = 8\sqrt{2}, AB = 5, BN = BC = 5, CD = 10, \alpha = 45^\circ$$

Задача К-26.16.

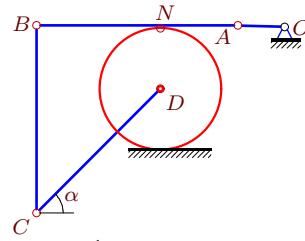
Никитенков Федор



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

Задача К-26.18.

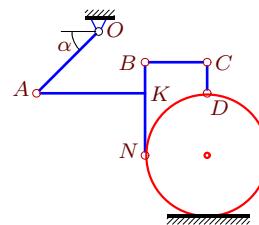
Опимтев Владислав



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

Задача К-26.20.

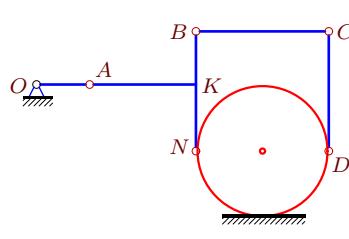
Парашин Андрей



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

Задача К-26.22.

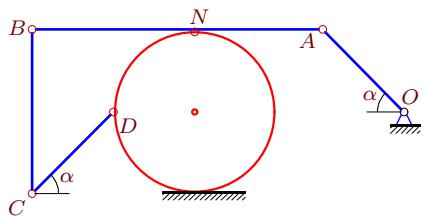
Пархоменко Иван



$$\omega_{OA_z} = 3c^{-1}, R = 5, OA = 4, AK = 8, BK = 4, KN = 5, CD = 9.$$

Задача К-26.23.

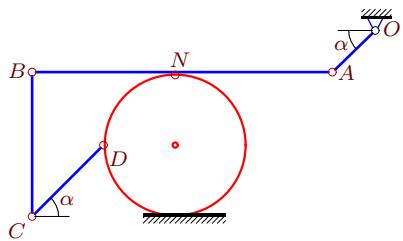
Петров Кирилл



$$\omega_{OA_z} = 22 \text{ c}^{-1}, R = 7, OA = 7\sqrt{2}, \\ CD = 7\sqrt{2}, AN = 11, AB = 25, \alpha = 45^\circ.$$

Задача К-26.25.

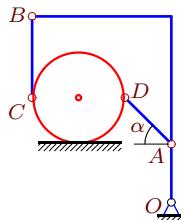
Руфин Никита



$$\omega_{OA_z} = 110 \text{ c}^{-1}, R = 5, OA = 3\sqrt{2}, \\ CD = 5\sqrt{2}, AN = 11, AB = 21, \alpha = 45^\circ.$$

Задача К-26.27.

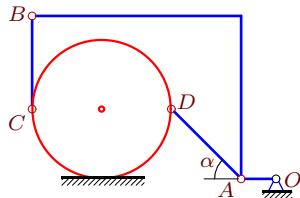
Семенова Ирина



$$\omega_{OA_z} = 168 \text{ c}^{-1}, R = 4, OA = 5, \\ AD = 4\sqrt{2}, BC = 7, \alpha = 45^\circ.$$

Задача К-26.29.

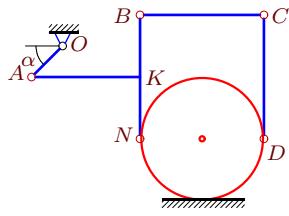
Сюлюкин Кирилл



$$\omega_{OA_z} = 4 \text{ c}^{-1}, R = 6, OA = 3, \\ AD = 6\sqrt{2}, BC = 8, \alpha = 45^\circ.$$

Задача К-26.24.

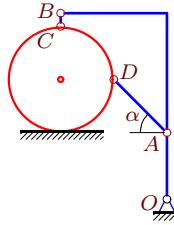
Петухов Антон



$$\omega_{OA_z} = 6 \text{ c}^{-1}, R = 4, OA = 2\sqrt{2}, \\ AK = 7, BK = 4, KN = 4, CD = 8, \alpha = 45^\circ.$$

Задача К-26.26.

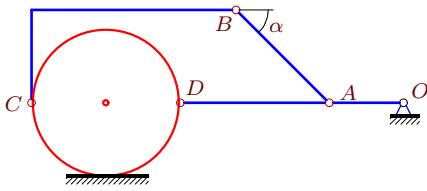
Самойлов Никита



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

Задача К-26.28.

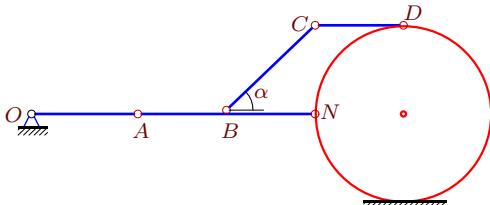
Слявин Ярослав



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

Задача К-26.30.

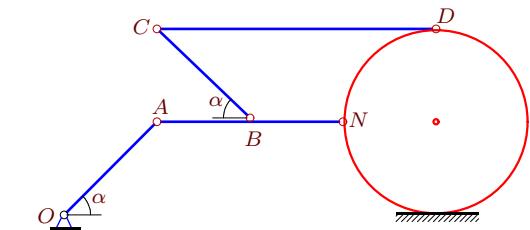
Хачалов Магомед



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

Задача К-26.31.

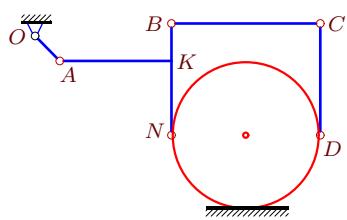
Чаймелов Андрей



$$\omega_{OA_z} = 3c^{-1}, R = 5, OA = 5\sqrt{2}, AB = 5, BN = 5, BC = 5\sqrt{2}, CD = 15, \alpha = 45^\circ.$$

Задача К-26.33.

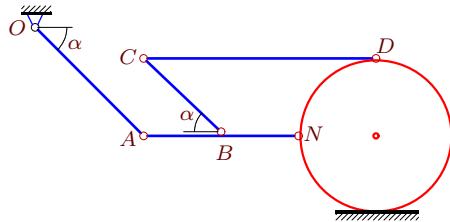
Шубин Станислав



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

Задача К-26.35.

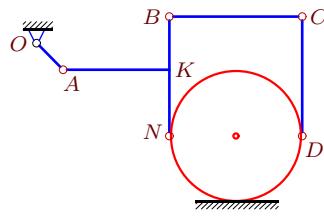
Ярилин Иван



$$\omega_{OA_z} = 15c^{-1}, R = 5, OA = 7\sqrt{2}, AB = 5, BN = 5, BC = 5\sqrt{2}, CD = 15, \alpha = 45^\circ$$

Задача К-26.32.

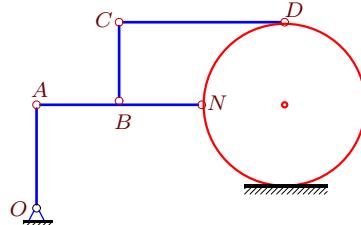
Чумаков Иван



$$\omega_{OA_z} = 5c^{-1}, R = 5, OA = 2\sqrt{2}, AK = 8, BK = 4, KN = 5, CD = 9, \alpha = 45^\circ.$$

Задача К-26.34.

Юшин Илья



$$\omega_{OA_z} = 16c^{-1}, R = 4, OA = 5, AB = 4, BN = BC = 4, CD = 8.$$