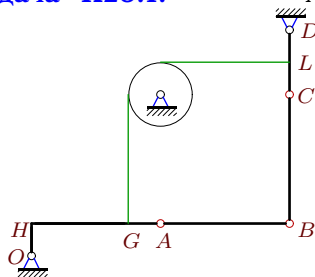


Плоский механизм с блоком

В указанном положении механизма задана угловая скорость одного из звеньев. Длины звеньев даны в сантиметрах. Стержни и нити, направление которых не указано, считать горизонтальными или вертикальными. Нить огибает диск радиусом r без проскальзывания. Найти угловые скорости всех звеньев механизма.

Задача K28.1.

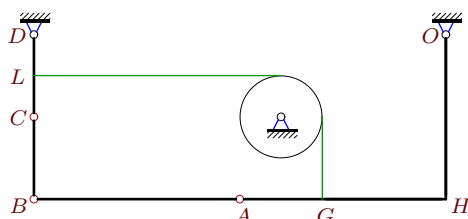
Аксенов Михаил



$OH = 1$, $CB = HA = AB = 4$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 1$, $\omega_{disk} = -12 \text{ c}^{-1}$.

Задача K28.2.

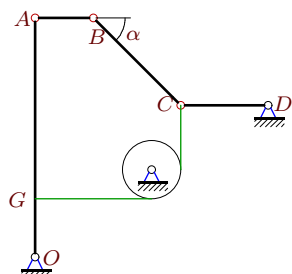
Барашков Александр



$OH = 4$, $CB = 2$, $HA = AB = 5$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 2$, $\omega_{disk} = -3 \text{ c}^{-1}$.

Задача K28.3.

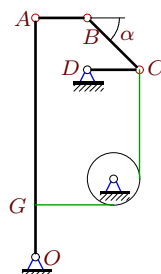
Белозёрова Ирина



$OA = 8$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 2$,
 $OG = 2$, $r = 1$, $\omega_{AB} = 15 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.4.

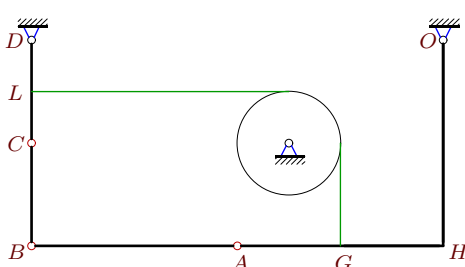
Воронов Дмитрий



$OA = 9$, $CB = 2\sqrt{2}$, $CD = 2$, $AB = 2$,
 $OG = 2$, $r = 1$, $\omega_{CD} = 2 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.5.

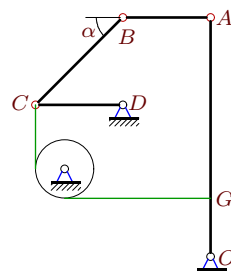
Завьялов Борис



$OH = 4$, $CB = 2$, $HA = AB = 4$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 2$, $\omega_{AB} = -1 \text{ c}^{-1}$.

Задача K28.6.

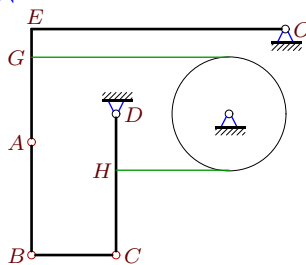
Карташов Евгений



$OA = 8$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 3$,
 $OG = 2$, $r = 1$, $\omega_{disk} = 6 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.7.

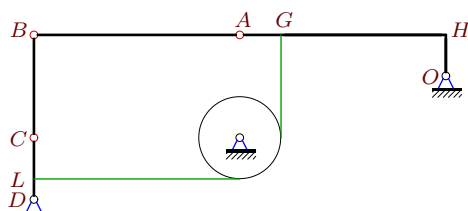
Коротеев Кирилл



$OE = 9$, $CB = 3$, $AB = 4$, $CD = 5$, $r = 2$,
 $CH = 3$, $AG = 3$, $GE = 1$, $\omega_{CB} = -24 \text{ c}^{-1}$.

Задача K28.8.

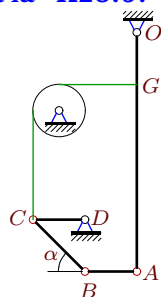
Кочнов Иван



$OH = 2$, $CB = 5$, $HA = AB = 10$, $CD = 3$,
 $r = 2$, $CL = 2$, $AG = 2$, $\omega_{CD} = 40 \text{ c}^{-1}$.

Задача K28.9.

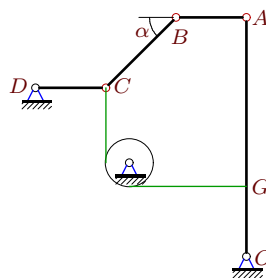
Леонтьев Владимир



$OA = 9$, $CB = 2\sqrt{2}$, $CD = 2$, $AB = 2$,
 $OG = 2$, $r = 1$, $\omega_{OA} = -2 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.10.

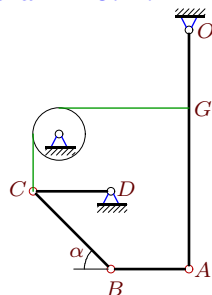
Любимов Сергей



$OA = 10$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 3$,
 $OG = 3$, $r = 1$, $\omega_{CB} = -10 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.11.

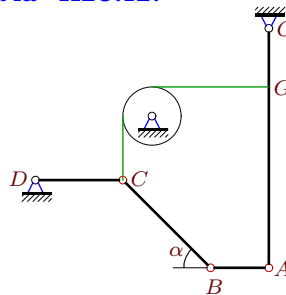
Мильчакова Мария



$OA = 9$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 3$,
 $OG = 3$, $r = 1$, $\omega_{AB} = 4 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.12.

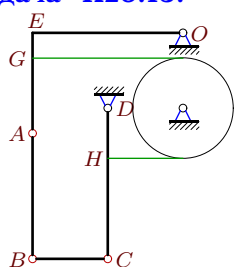
Моисеенко Глеб



$OA = 8$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 2$,
 $OG = 2$, $r = 1$, $\omega_{CD} = -2 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.13.

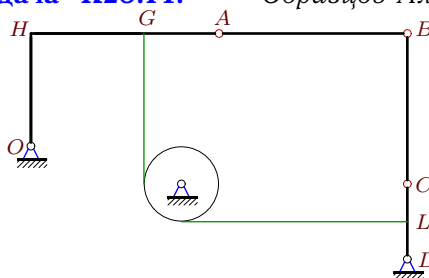
Никулин Дмитрий



$OE = 6$, $CB = 3$, $AB = 5$, $CD = 6$, $r = 2$,
 $CH = 4$, $AG = 3$, $GE = 1$, $\omega_{OA} = -10 \text{ c}^{-1}$.

Задача K28.14.

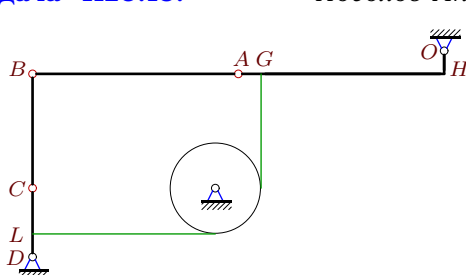
Образцов Александр



$OH = 3$, $CB = 4$, $HA = AB = 5$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 2$, $\omega_{OA} = 4 \text{ c}^{-1}$.

Задача K28.15.

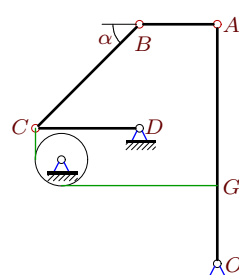
Посохов Андрей



$OH = 1$, $CB = 5$, $HA = AB = 9$, $CD = 3$,
 $r = 2$, $CL = 2$, $AG = 1$, $\omega_{CB} = -5 \text{ c}^{-1}$.

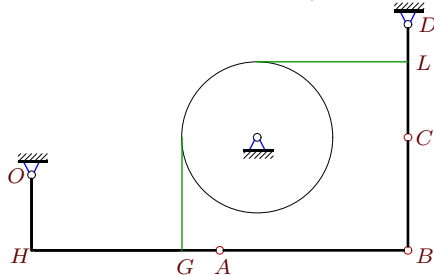
Задача K28.16.

Прошина Анастасия



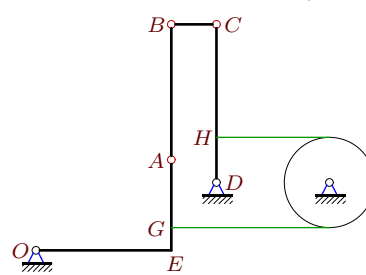
$OA = 9$, $CB = 4\sqrt{2}$, $CD = 4$, $AB = 3$,
 $OG = 3$, $r = 1$, $\omega_{OA} = -4 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.17. Старостин Алексей



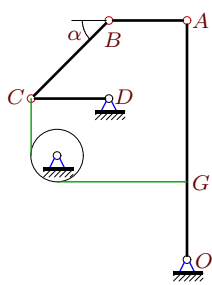
$OH = 2$, $CB = 3$, $HA = AB = 5$, $CD = 3$,
 $r = 2$, $CL = 2$, $AG = 1$, $\omega_{CB} = -10 \text{ c}^{-1}$.

Задача K28.18. Терехова Ангелина



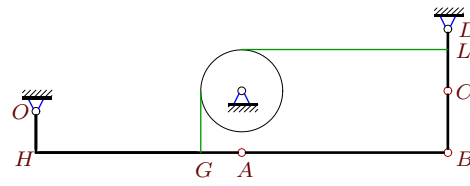
$OE = 6$, $CB = 2$, $AB = 6$, $CD = 7$, $r = 2$,
 $CH = 5$, $AG = 3$, $GE = 1$, $\omega_{AB} = 5 \text{ c}^{-1}$.

Задача K28.19. Чалый Дмитрий



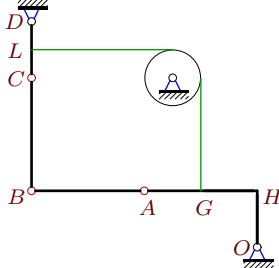
$OA = 9$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 3$,
 $OG = 3$, $r = 1$, $\omega_{disk} = 3 \text{ c}^{-1}$, $\alpha = 45^\circ$.

Задача K28.20. Московой Валентин



$OH = 2$, $CB = 3$, $HA = AB = 10$, $CD = 3$,
 $r = 2$, $CL = 2$, $AG = 2$, $\omega_{disk} = -12 \text{ c}^{-1}$.

Задача K28.21. Титков Евгений



$OH = 2$, $CB = HA = AB = 4$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 2$, $\omega_{CD} = 4 \text{ c}^{-1}$.