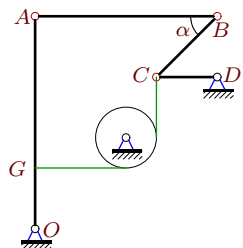


Плоский механизм с блоком

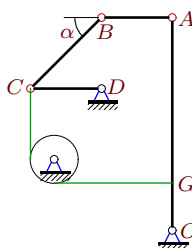
В указанном положении механизма задана угловая скорость одного из звеньев. Длины звеньев даны в сантиметрах. Стержни, направление которых не указано, считать горизонтальными или вертикальными. Нить огибает диск радиусом r без проскальзывания. Найти угловые скорости всех звеньев механизма.

Задача K28*.1. Багаев Евгений



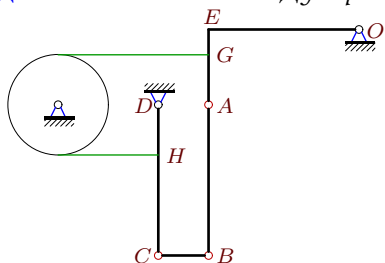
$$OA = 8, CB = 2\sqrt{2}, CD = 2, AB = 2, \\ OG = 2, r = 1, \omega_{AB} = -1 \text{ c}^{-1}, \alpha = 45^\circ.$$

Задача K28*.2. Близнюков Егор



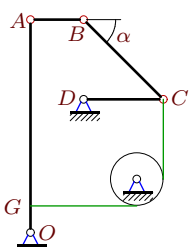
$$OA = 6, CB = 3\sqrt{2}, CD = 3, AB = 3, \\ OG = 2, r = 1, \omega_{CB} = -6 \text{ c}^{-1}, \alpha = 45^\circ.$$

Задача K28*.3. Дударев Евгений



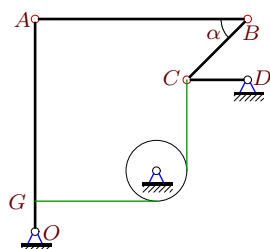
$$OE = 6, CB = 2, AB = 6, CD = 6, r = 2, \\ CH = 4, AG = 2, GE = 1, \omega_{OA} = -2 \text{ c}^{-1}.$$

Задача K28*.4. Дудка Иван



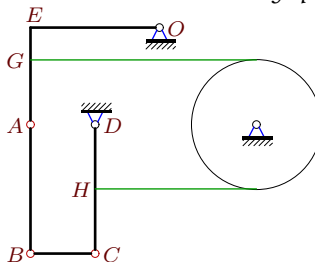
$$OA = 3, CB = 3\sqrt{2}, CD = 3, AB = 2, \\ OG = 1, r = 1, \omega_{disk} = 3 \text{ c}^{-1}, \alpha = 45^\circ.$$

Задача K28*.5. Исаев Юрий



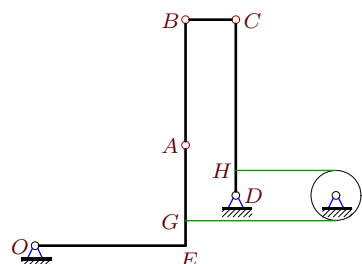
$$OA = 4, CB = 2\sqrt{2}, CD = 2, AB = 3, \\ OG = 1, r = 1, \omega_{CD} = -1 \text{ c}^{-1}, \alpha = 45^\circ.$$

Задача K28*.6. Кудрявцев Павел



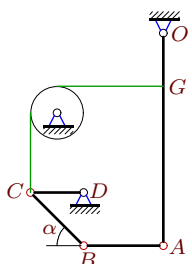
$$OE = 4, CB = 2, AB = 4, CD = 4, r = 2, \\ CH = 2, AG = 2, GE = 1, \omega_{AB} = 5 \text{ c}^{-1}.$$

Задача K28*.7. Кузин Максим



$$OE = 6, CB = 2, AB = 5, CD = 7, r = 1, \\ CH = 6, AG = 3, GE = 1, \omega_{CB} = 15 \text{ c}^{-1}.$$

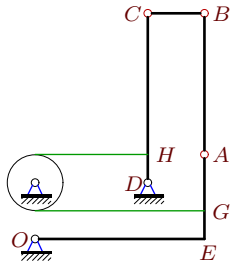
Задача K28*.8. Лещенко Максим



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

Задача K28*.9.

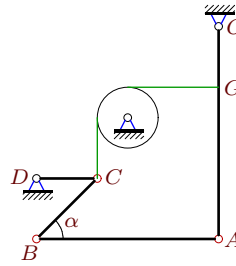
Лутохин Марк



$OE = 6, CB = 2, AB = 5, CD = 6, r = 1,$
 $CH = 5, AG = 2, GE = 1, \omega_{AB} = 9 \text{ c}^{-1}.$

Задача K28*.10.

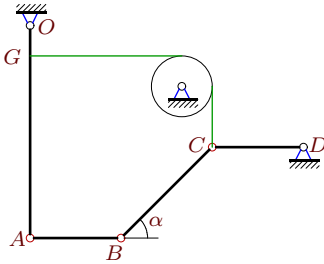
Лысов Сергей



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

Задача K28*.11.

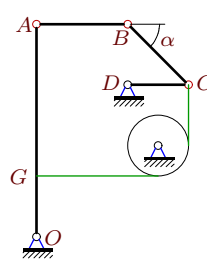
Макаров Дмитрий



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

Задача K28*.12.

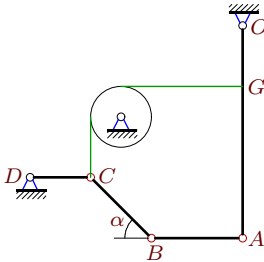
Миляев Роман



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

Задача K28*.13.

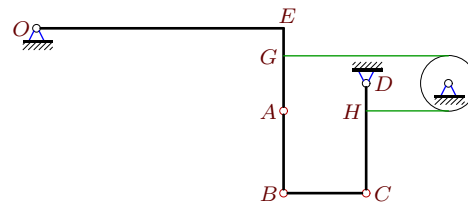
Однорог Дмитрий



$OA = 8, CB = 2\sqrt{2}, CD = 2, AB = 3,$
 $OG = 2, r = 1, \omega_{CB} = -12 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28*.14.

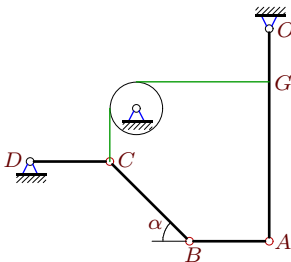
Петров Михаил



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

Задача K28*.15.

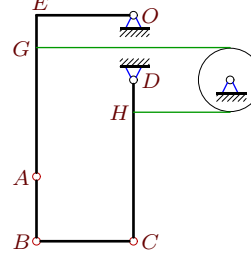
Потемкин Дмитрий



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

Задача K28*.16.

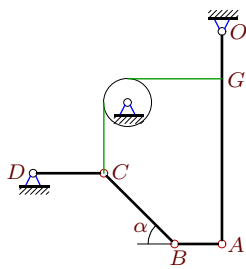
Пучков Антон



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

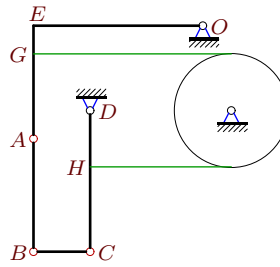
Задача K28*.17.

Пучков Павел



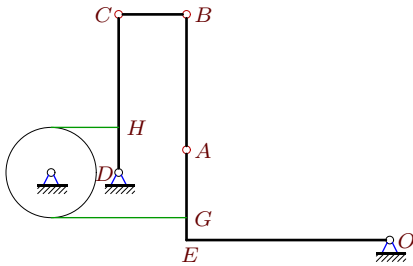
$OA = 8, CB = 3\sqrt{2}, CD = 3, AB = 2,$
 $OG = 2, r = 1, \omega_{OA} = -6 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28*.18. Самыгина Елизавета



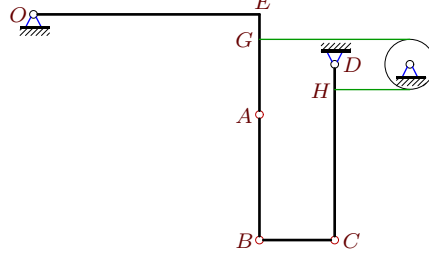
$OE = 6, CB = 2, AB = 4, CD = 5, r = 2,$
 $CH = 3, AG = 3, GE = 1, \omega_{CD} = 4 \text{ c}^{-1}.$

Задача K28*.19. Теуважукв Антон



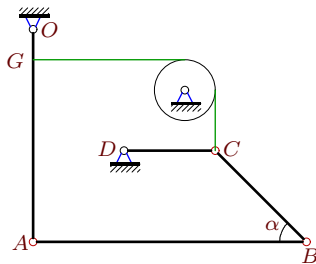
$OE = 9, CB = 3, AB = 6, CD = 7, r = 2,$
 $CH = 5, AG = 3, GE = 1, \omega_{OA} = -4 \text{ c}^{-1}.$

Задача K28*.20. Туманов Николай



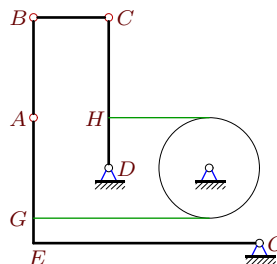
$OE = 9, CB = 3, AB = 5, CD = 7, r = 1,$
 $CH = 6, AG = 3, GE = 1, \omega_{OA} = -5 \text{ c}^{-1}.$

Задача K28*.21. Улановский Олег



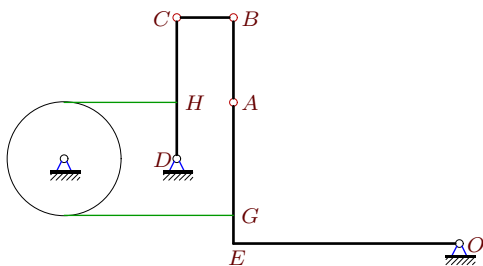
$OA = 4, CB = 3\sqrt{2}, CD = 3, AB = 3,$
 $OG = 1, r = 1, \omega_{OA} = -3 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28*.22. Хуан Хуань



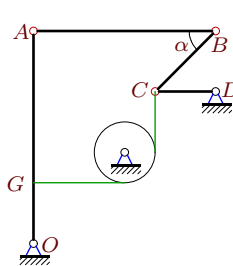
$OE = 9, CB = 3, AB = 4, CD = 6, r = 2,$
 $CH = 4, AG = 4, GE = 1, \omega_{disk} = 1 \text{ c}^{-1}.$

Задача K28*.23. Чамлай Кирилл



$OE = 8, CB = 2, AB = 3, CD = 5, r = 2,$
 $CH = 3, AG = 4, GE = 1, \omega_{AB} = 5 \text{ c}^{-1}.$

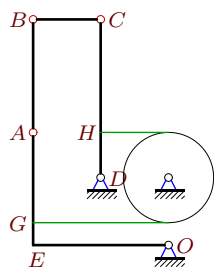
Задача K28*.24. Ярцев Константин



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

Задача К28*.25.

Ольховский Иван



$OE = 6$, $CB = 3$, $AB = 5$, $CD = 7$, $r = 2$,
 $CH = 5$, $AG = 4$, $GE = 1$, $\omega_{AB} = 17 \text{ c}^{-1}$.