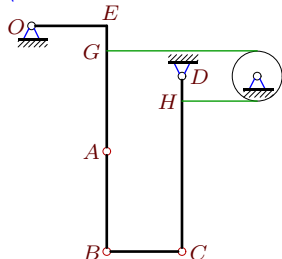


Плоский механизм с блоком

В указанном положении механизма задана угловая скорость одного из звеньев (с^{-1}). 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 К-28.1.

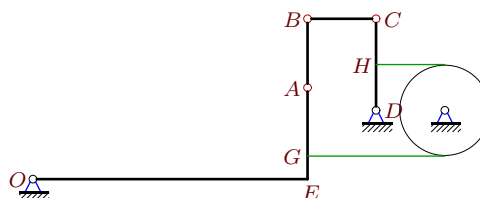
Абалин Максим



$OE = 3$, $CB = 3$, $AB = 4$, $CD = 7$, $r = 1$,
 $CH = 6$, $AG = 4$, $GE = 1$, $\omega_{OA} = -1$.

Задача К-28.2.

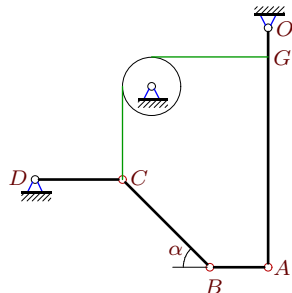
Абдулвалиев Роман



$OE = 12$, $CB = AB = 3$, $CD = 4$, $r = 2$,
 $CH = 2$, $AG = 3$, $GE = 1$, $\omega_{AB} = 4$.

Задача К-28.3.

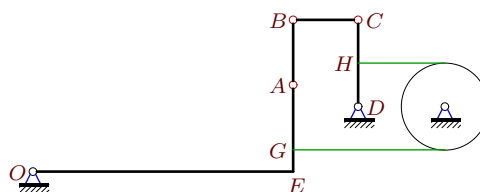
Антонова Вера



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

Задача К-28.4.

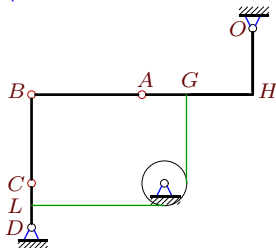
Большаков Павел



$OE = 12$, $CB = AB = 3$, $CD = 4$, $r = 2$,
 $CH = 2$, $AG = 3$, $GE = 1$, $\omega_{CB} = 8$.

Задача К-28.5.

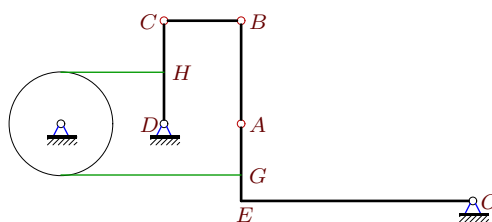
Воропай Руслан



$OH = 3$, $CB = 4$, $HA = AB = 5$, $CD = 2$,
 $r = 1$, $CL = 1$, $AG = 2$, $\omega_{CD} = 12$.

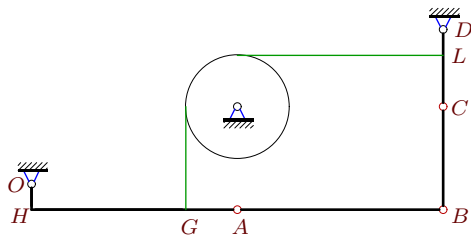
Задача К-28.6.

Ершов Леонид



$OE = 9$, $CB = 3$, $AB = 4$, $CD = 4$, $r = 2$,
 $CH = AG = 2$, $GE = 1$, $\omega_{CB} = 12$.

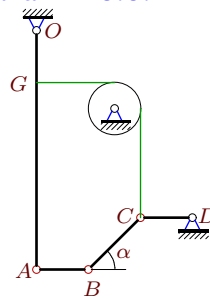
Задача К-28.7. Загородний Константин



$OH = 1, CB = 4, HA = AB = 8, CD = 3,$
 $r = 2, CL = 2, AG = 2, \omega_{OA} = 4.$

Задача К-28.8.

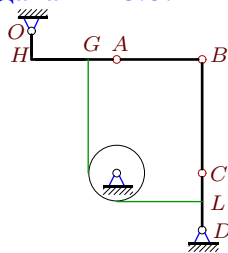
Казбаев Владимир



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

Задача К-28.9.

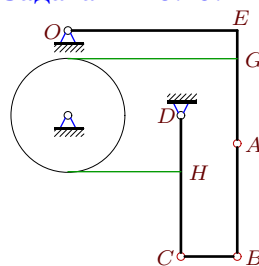
Кириенко Дмитрий



$OH = 1, CB = 4, HA = AB = 3, CD = 2,$
 $r = 1, CL = 1, AG = 1, \omega_{CD} = 8.$

Задача К-28.10.

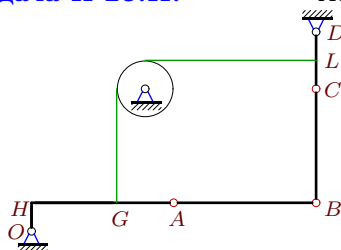
Китайкина Ирина



$OE = 6, CB = 2, AB = 4, CD = 5, r = 2,$
 $CH = AG = 3, GE = 1, \omega_{CB} = -24.$

Задача К-28.11.

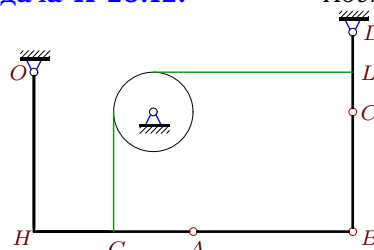
Косарева Елена



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

Задача К-28.12.

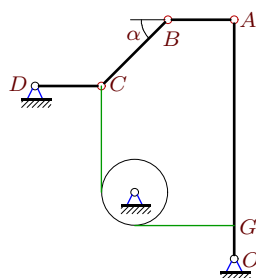
Костин Андрей



$OH = 4, CB = 3, HA = AB = 4, CD = 2,$
 $r = 1, CL = 1, AG = 2, \omega_{CD} = 2.$

Задача К-28.13.

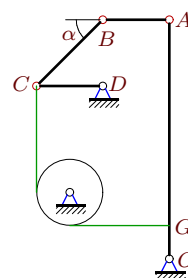
Любчик Владислав



$OA = 7, CB = 2\sqrt{2}, CD = AB = 2, OG = 1,$
 $r = 1, \omega_{CB} = -7, \alpha = 45^\circ.$

Задача К-28.14.

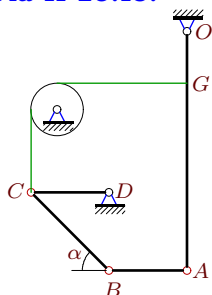
Маслов Владислав



$OA = 7, CB = 2\sqrt{2}, CD = AB = 2, OG = 1,$
 $r = 1, \omega_{AB} = 8, \alpha = 45^\circ.$

Задача К-28.15.

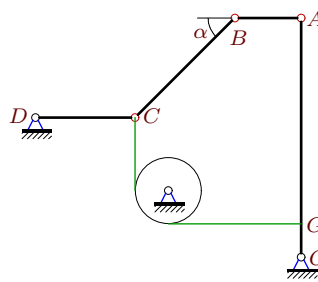
Матвеев Александр



$OA = 9$, $CB = 3\sqrt{2}$, $CD = AB = 3$, $OG = 2$, $r = 1$, $\omega_{disk} = 6$, $\alpha = 45^\circ$.

Задача К-28.16.

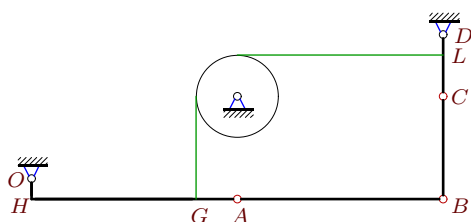
Пиценко Денис



$OA = 7$, $CB = 3\sqrt{2}$, $CD = 3$, $AB = 2$, $OG = 1$, $r = 1$, $\omega_{disk} = 3$, $\alpha = 45^\circ$.

Задача К-28.17.

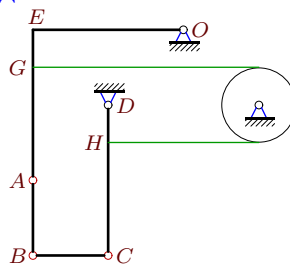
Плешанова Анна



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

Задача К-28.18.

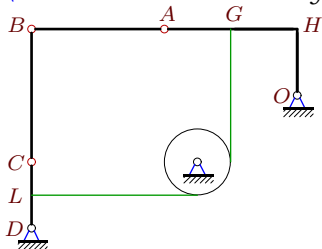
Родионова Варвара



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

Задача К-28.19.

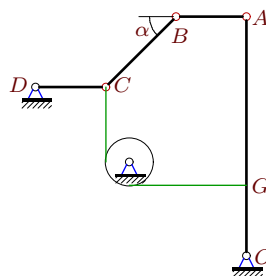
Сулименко Данил



$OH = 2$, $CB = HA = AB = 4$, $CD = 2$, $r = 1$, $CL = 1$, $AG = 2$, $\omega_{OA} = 2$.

Задача К-28.20.

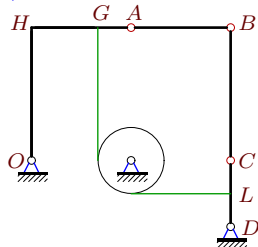
Сысолетин Иван



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

Задача К-28.21.

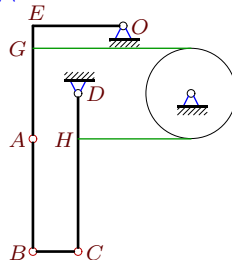
Фомичев Кирилл



$OH = 4$, $CB = 4$, $HA = AB = 3$, $CD = 2$, $r = 1$, $CL = 1$, $AG = 1$, $\omega_{CD} = 2$.

Задача К-28.22.

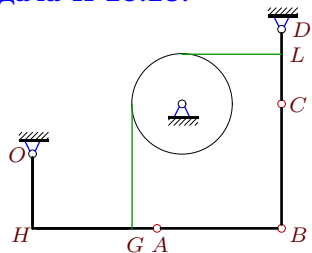
Шпагина Юлия



$OE = 4$, $CB = 2$, $AB = 5$, $CD = 7$, $r = 2$, $CH = 5$, $AG = 4$, $GE = 1$, $\omega_{CD} = 5$.

Задача К-28.23.

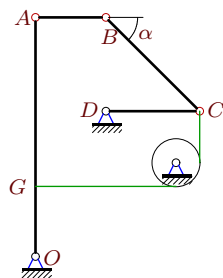
Щеглов Иван



$OH = 3$, $CB = HA = AB = 5$, $CD = 3$,
 $r = 2$, $CL = 2$, $AG = 1$, $\omega_{CD} = 20$.

Задача К-28.24.

Карпов Юрий



$OA = 10$, $CB = 4\sqrt{2}$, $CD = 4$, $AB = 3$,
 $OG = 3$, $r = 1$, $\omega_{CB} = -30$, $\alpha = 45^\circ$.