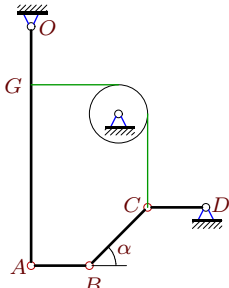


Плоский механизм с блоком

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.

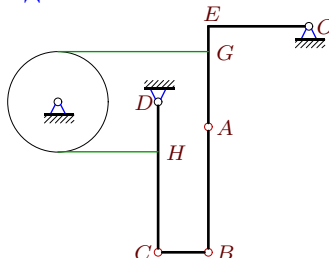
Баранов Никита



$OA = 8$, $CB = 2\sqrt{2}$, $CD = AB = 2$, $OG = 2$, $r = 1$, $\omega_{CB} = -4$, $\alpha = 45^\circ$.

Задача К-28.2.

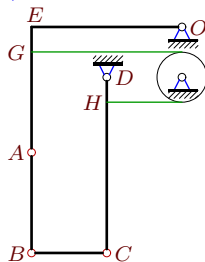
Белинский Матвей



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

Задача К-28.3.

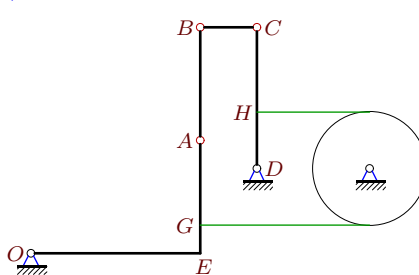
Брагина Надежда



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

Задача К-28.4.

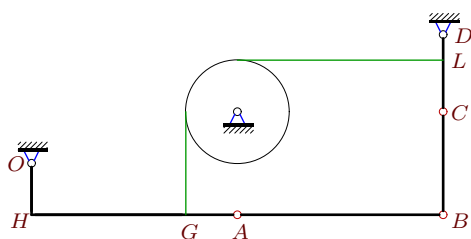
Головин Александр



$OE = 6$, $CB = 2$, $AB = 4$, $CD = 5$, $r = 2$, $CH = AG = 3$, $GE = 1$, $\omega_{AB} = 13$.

Задача К-28.5.

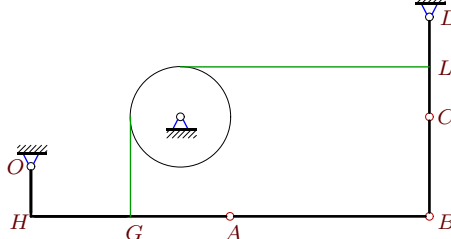
Доманов Евгений



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

Задача К-28.6.

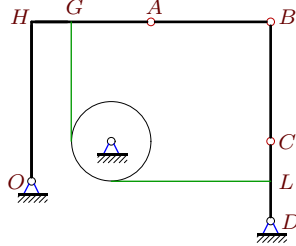
Желагин Андрей



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

Задача К-28.7.

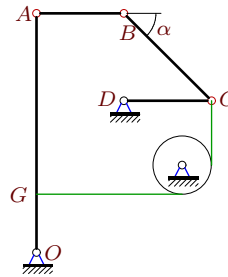
Идрисов Расим



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

Задача К-28.8.

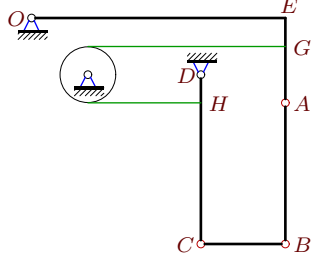
Илюшин Александр



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

Задача К-28.9.

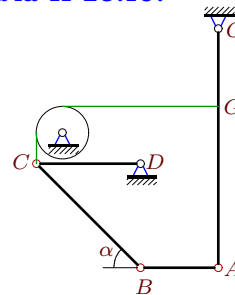
Коваленко Василий



$OE = 9, CB = 3, AB = 5, CD = 6, r = 1,$
 $CH = 5, AG = 2, GE = 1, \omega_{AB} = 9.$

Задача К-28.10.

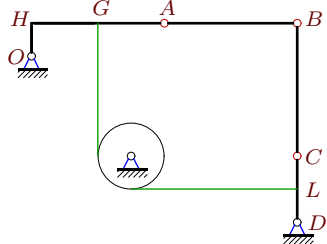
Ковзан Иван



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

Задача К-28.11.

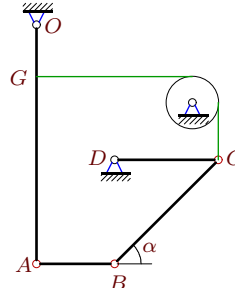
Коклин Александр



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

Задача К-28.12.

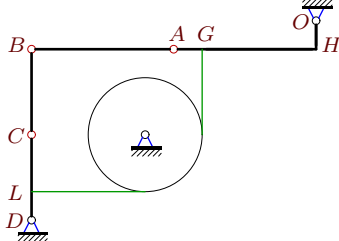
Кудинова Юлия



$OA = 9, CB = 4\sqrt{2}, CD = 4, AB = 3,$
 $OG = 2, r = 1, \omega_{disk} = 24, \alpha = 45^\circ.$

Задача К-28.13.

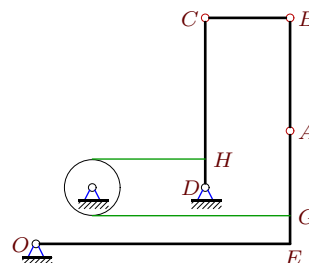
Латышев Владислав



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

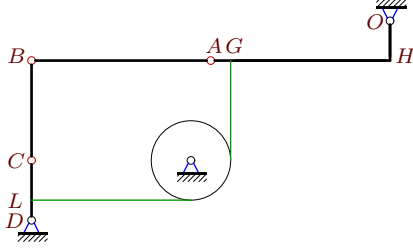
Задача К-28.14.

Мацаренко Марк



$OE = 9, CB = 3, AB = 4, CD = 6, r = 1,$
 $CH = 5, AG = 3, GE = 1, \omega_{CB} = -6.$

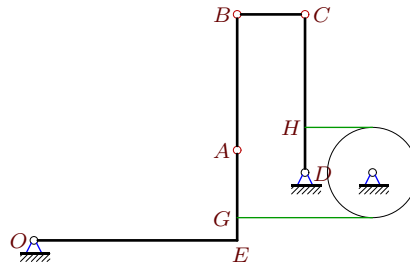
Задача К-28.15. Никишина Анастасия



$OH = 2, CB = 5, HA = AB = 9, CD = 3,$
 $r = 2, CL = 2, AG = 1, \omega_{CB} = -26.$

Задача К-28.16.

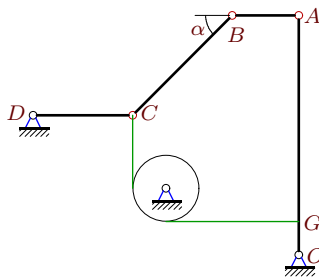
Платова Варвара



$OE = 9, CB = 3, AB = 6, CD = 7, r = 2,$
 $CH = 5, AG = 3, GE = 1, \omega_{disk} = 2.$

Задача К-28.17.

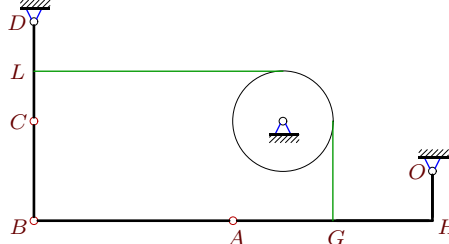
Разгуляев Никита



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

Задача К-28.18.

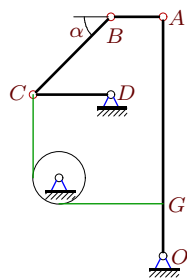
Романов Алексей



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

Задача К-28.19.

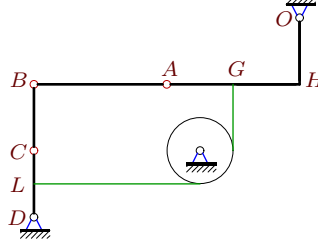
Саргин Артем



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

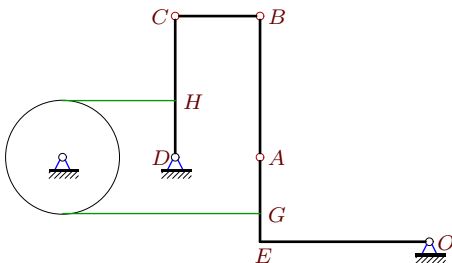
Задача К-28.20.

Соколов Никита



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

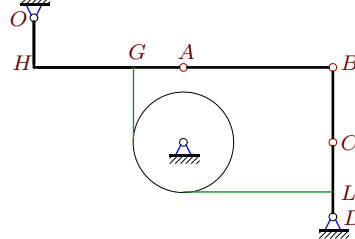
Задача К-28.21. Солодовников Вячеслав



$OE = 6, CB = 3, AB = 5, CD = 5, r = 2,$
 $CH = 3, AG = 2, GE = 1, \omega_{CB} = 20.$

Задача К-28.22.

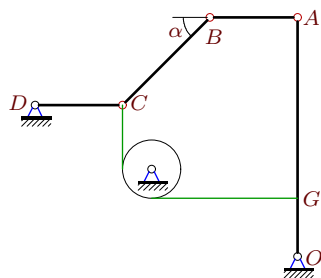
Степанова Дарья



$OH = 2, CB = 3, HA = AB = 6, CD = 3,$
 $r = 2, CL = 2, AG = 2, \omega_{AB} = -3.$

Задача К-28.23.

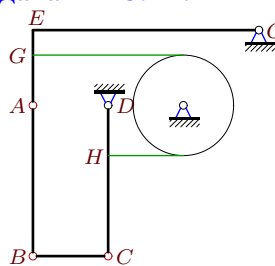
Тулупова Наталья



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

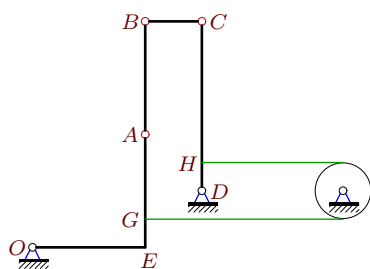
Задача К-28.24.

Федоров Владислав



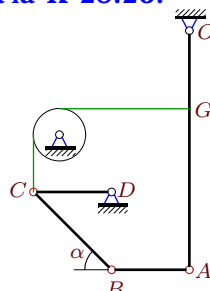
$OE = 9$, $CB = 3$, $AB = 6$, $CD = 6$, $r = 2$, $CH = 4$, $AG = 2$, $GE = 1$, $\omega_{OA} = -2$.

Задача К-28.25.



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

Задача К-28.26.



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