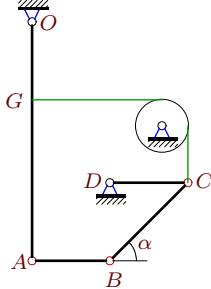


# Плоский механизм с блоком

В указанном положении механизма задана угловая скорость одного из звеньев ( $\text{с}^{-1}$ ). 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.

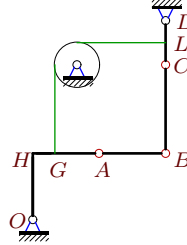
Аббуд Карам Али



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

## Задача К-28.2.

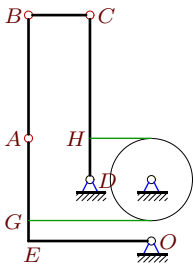
Богомолова Арина



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

## Задача К-28.3.

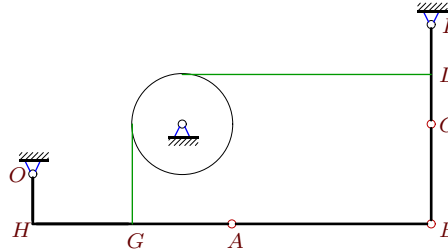
Долгушев Алексей



$$OE = 6, CB = 3, AB = 6, CD = 8, r = 2, CH = 6, AG = 4, GE = 1, \omega_{CB} = -4.$$

## Задача К-28.4.

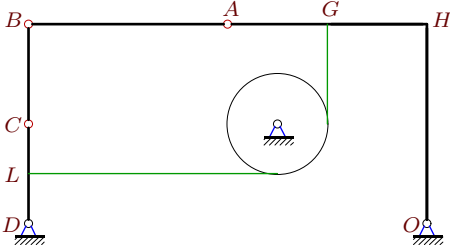
Зайцев Сергей



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

## Задача К-28.5.

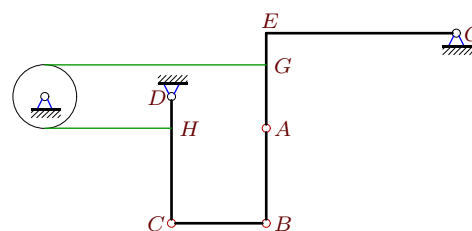
Исаев Илья



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

## Задача К-28.6.

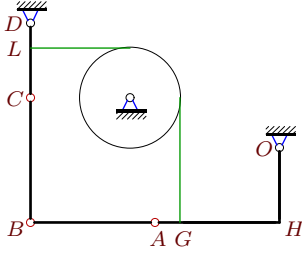
Камынин Даниил



$$OE = 6, CB = AB = 3, CD = 4, r = 1, CH = 3, AG = 2, GE = 1, \omega_{AB} = 7.$$

**Задача К-28.7.**

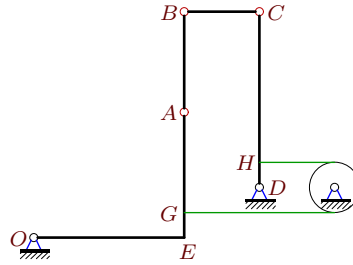
Коршиков Максим



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

**Задача К-28.8.**

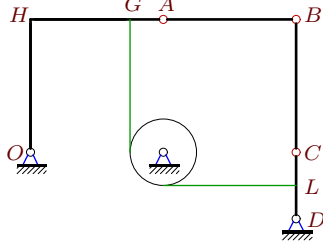
Кузнецов Иван



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

**Задача К-28.9.**

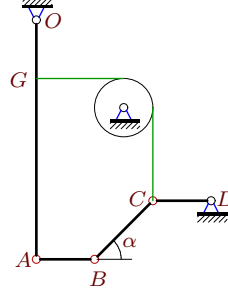
Куренкова Виктория



$OH = 4, CB = HA = AB = 4, CD = 2,$   
 $r = 1, CL = 1, AG = 1, \omega_{disk} = -6.$

**Задача К-28.10.**

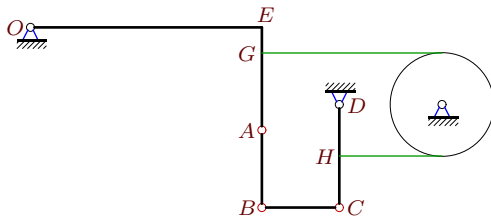
Лысенкова Анастасия



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

**Задача К-28.11.**

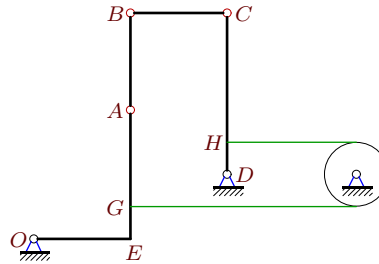
Львов Дмитрий



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

**Задача К-28.12.**

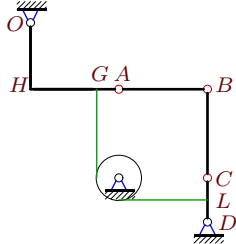
Маликова Регина



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

**Задача К-28.13.**

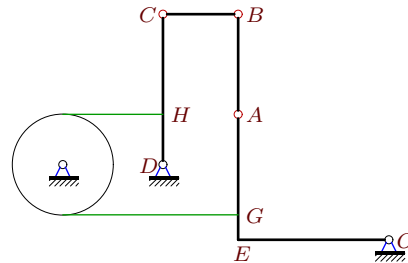
Манеев Илья



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

**Задача К-28.14.**

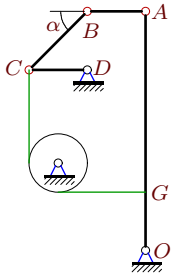
Опрокиднёв Эрнст



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

**Задача К-28.15.**

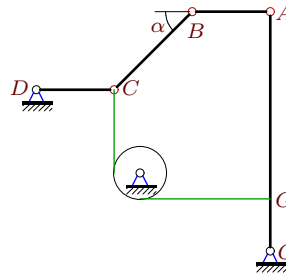
Пошибаев Алексей



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

**Задача К-28.16.**

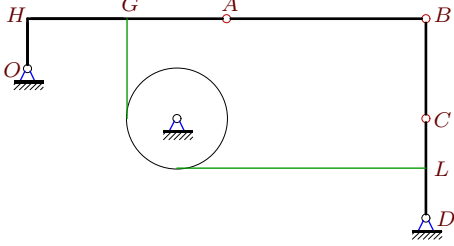
Привезенов Николай



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

**Задача К-28.17.**

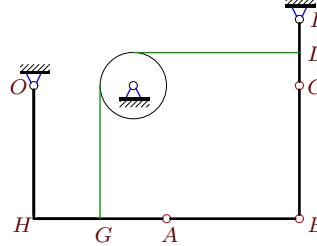
Пышкина Инна



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

**Задача К-28.18.**

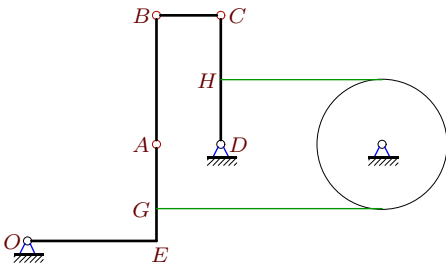
Рашитов Данил



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

**Задача К-28.19.**

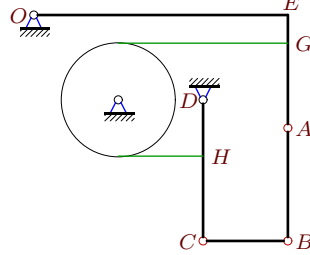
Свиридов Георгий



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

**Задача К-28.20.**

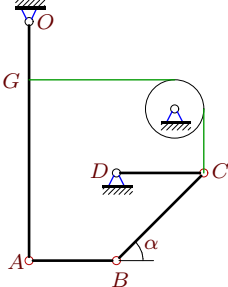
Скляр Никита



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

**Задача К-28.21.**

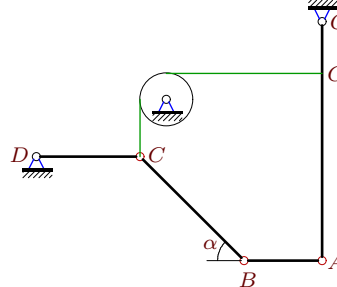
Телицын Данил



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

**Задача К-28.22.**

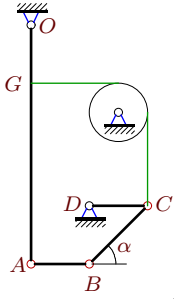
Ковалев Д.



$OA = 9, CB = 4\sqrt{2}, CD = 4, AB = 3,$   
 $OG = 2, r = 1, \omega_{OA} = -12, \alpha = 45^\circ.$

**Задача К-28.23.**

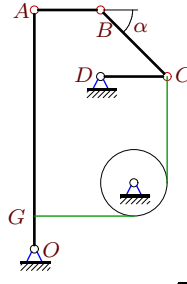
*Трякин Михаил*



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

**Задача К-28.24.**

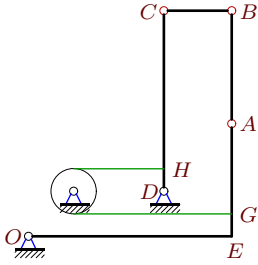
*Шибин Руслан*



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

**Задача К-28.25.**

*Штыленко Антон*



$OE = 9, CB = 3, AB = 5, CD = 8, r = 1,$   
 $CH = 7, AG = 4, GE = 1, \omega_{OA} = -5.$