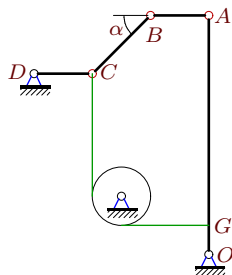


Плоский механизм с блоком

В указанном положении механизма задана угловая скорость одного из звеньев (c^{-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.

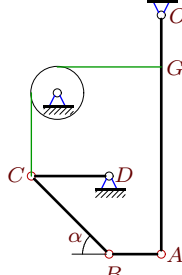
Ахперов Эмиль



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

Задача К-28.2.

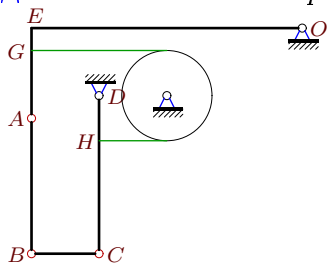
Алексеев Максим



$$OA = 9, CB = 3\sqrt{2}, CD = 3, AB = 2, OG = 2, r = 1, \omega_{AB} = 33, \alpha = 45^\circ.$$

Задача К-28.3.

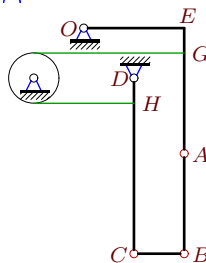
Архипова Евгения



$$OE = 12, CB = 3, AB = 6, CD = 7, r = 2, CH = 5, AG = 3, GE = 1, \omega_{CD} = 2.$$

Задача К-28.4.

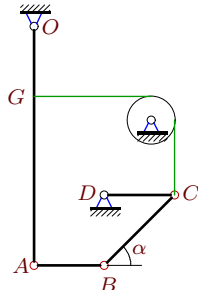
Борисов Илья



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

Задача К-28.5.

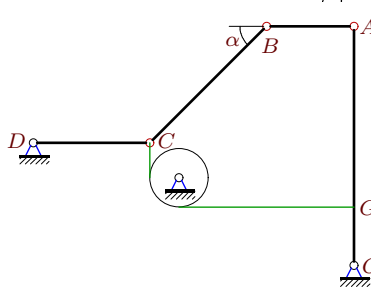
Горюнов Антон



$$OA = 10, CB = 3\sqrt{2}, CD = AB = 3, OG = 3, r = 1, \omega_{AB} = 13, \alpha = 45^\circ.$$

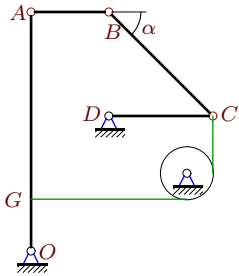
Задача К-28.6.

Давтян Инга



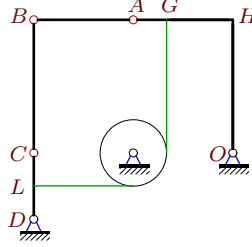
$$OA = 8, CB = 4\sqrt{2}, CD = 4, AB = 3, OG = 2, r = 1, \omega_{disk} = 12, \alpha = 45^\circ.$$

Задача К-28.7. Дзядевич Дмитрий



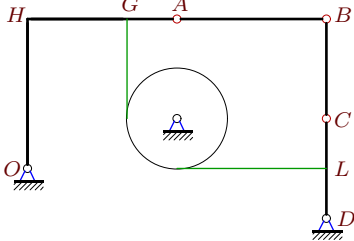
$OA = 9, CB = 4\sqrt{2}, CD = 4, AB = 3,$
 $OG = 2, r = 1, \omega_{CD} = 6, \alpha = 45^\circ.$

Задача К-28.8. Ефимов Василий



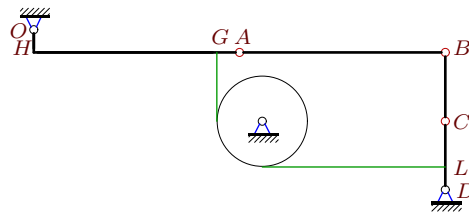
$OH = 4, CB = 4, HA = AB = 3, CD = 2,$
 $r = 1, CL = 1, AG = 1, \omega_{CD} = 2.$

Задача К-28.9. Савельев Никита



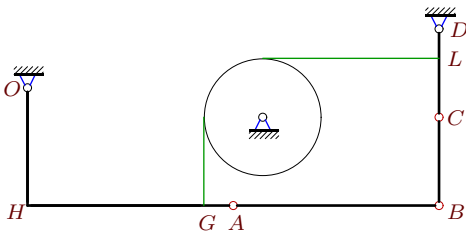
$OH = 3, CB = 2, HA = AB = 3, CD = 2,$
 $r = 1, CL = 1, AG = 1, \omega_{AB} = -2.$

Задача К-28.10. Захаров Алексей



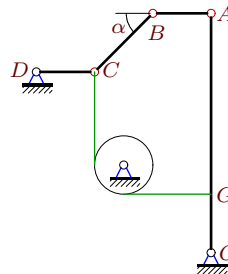
$OH = 1, CB = 3, HA = AB = 9, CD = 3,$
 $r = 2, CL = 2, AG = 1, \omega_{AB} = -3.$

Задача К-28.11. Золотых Дмитрий



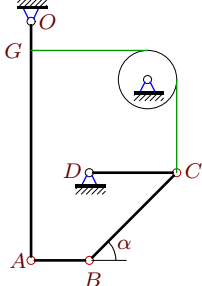
$OH = 4, CB = 3, HA = AB = 7, CD = 3,$
 $r = 2, CL = 2, AG = 1, \omega_{disk} = -9.$

Задача К-28.12. Бондаренко Дарья



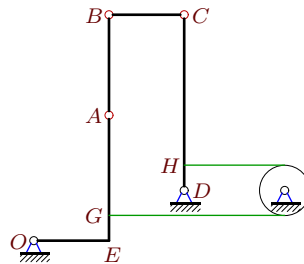
$OA = 8, CB = 2\sqrt{2}, CD = AB = 2, OG = 2,$
 $r = 1, \omega_{disk} = 2, \alpha = 45^\circ.$

Задача К-28.13. Зяблицын Даниил



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

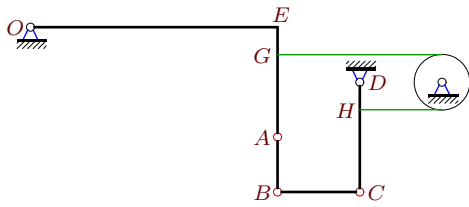
Задача К-28.14. Кирюхин Антон



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

Задача К-28.15.

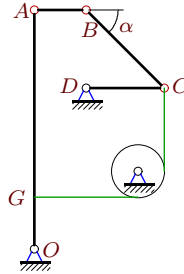
Мамонов Богдан



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

Задача К-28.16.

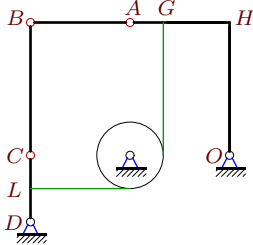
Молдареева Мария



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

Задача К-28.17.

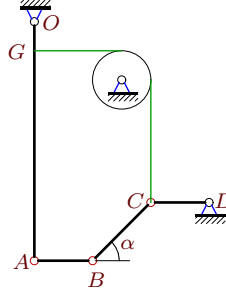
Морозов Максим



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

Задача К-28.18.

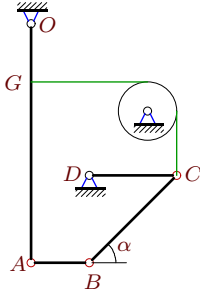
Мурушкин Сергей



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

Задача К-28.19.

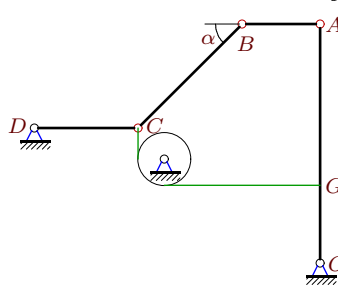
Обновленный Михаил



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

Задача К-28.20.

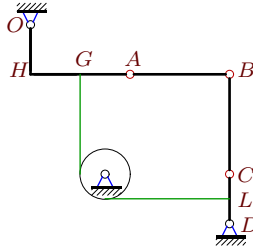
Султыгов Али



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

Задача К-28.21.

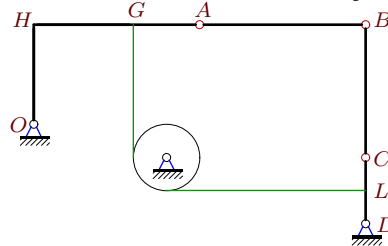
Сурков Вячеслав



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

Задача К-28.22.

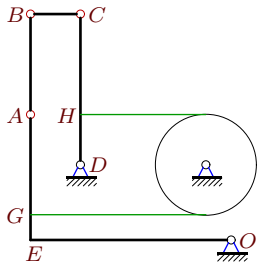
Суслов Даниил



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

Задача К-28.23.

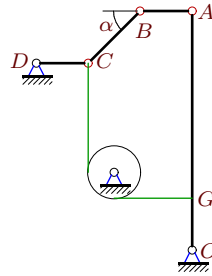
Сясикова Валерия



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

Задача К-28.24.

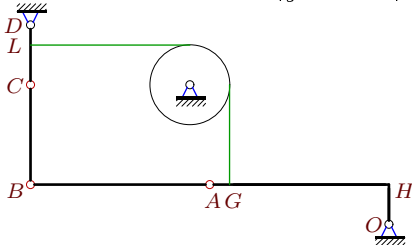
Фандеев Алексей



$OA = 9, CB = 2\sqrt{2}, CD = AB = 2, OG = 2,$
 $r = 1, \omega_{AB} = 11, \alpha = 45^\circ.$

Задача К-28.25.

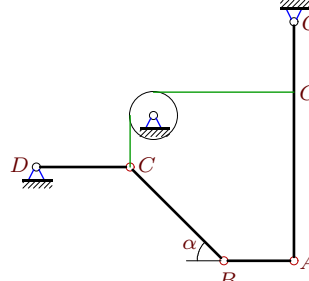
Цупенков Дмитрий



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

Задача К-28.26.

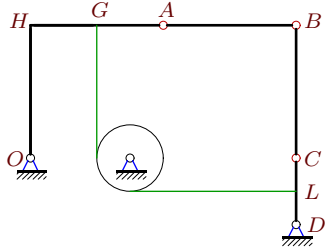
Чечнева Наталья



$OA = 10, CB = 4\sqrt{2}, CD = 4, AB = 3,$
 $OG = 3, r = 1, \omega_{AB} = 52, \alpha = 45^\circ.$

Задача К-28.27.

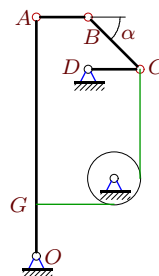
Чиждова Александра



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

Задача К-28.28.

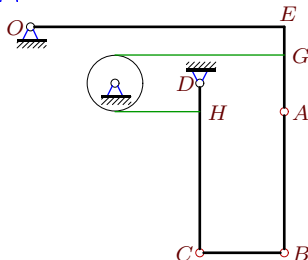
Шаронова Дарья



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

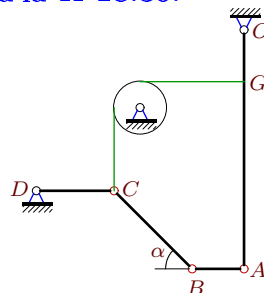
Задача К-28.29.

Шашелко Арсентий



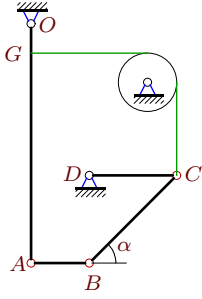
$OE = 9, CB = 3, AB = 5, CD = 6, r = 1,$
 $CH = 5, AG = 2, GE = 1, \omega_{AB} = 9.$

Задача К-28.30.



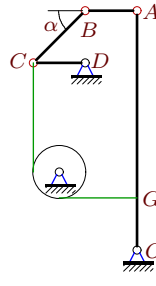
$OA = 9, CB = 3\sqrt{2}, CD = 3, AB = 2,$
 $OG = 2, r = 1, \omega_{CD} = -4, \alpha = 45^\circ.$

Задача К-28.31.



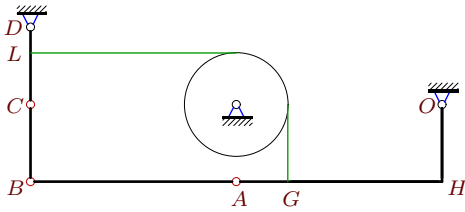
$OA = 8, CB = 3\sqrt{2}, CD = 3, AB = 2,$
 $OG = 1, r = 1, \omega_{OA} = -6, \alpha = 45^\circ.$

Задача К-28.32.



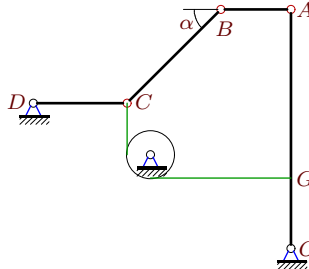
$OA = 9, CB = 2\sqrt{2}, CD = AB = 2, OG = 2,$
 $r = 1, \omega_{OA} = -2, \alpha = 45^\circ.$

Задача К-28.33.



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

Задача К-28.34.



$OA = 10, CB = 4\sqrt{2}, CD = 4, AB = 3,$
 $OG = 3, r = 1, \omega_{CD} = -9, \alpha = 45^\circ.$