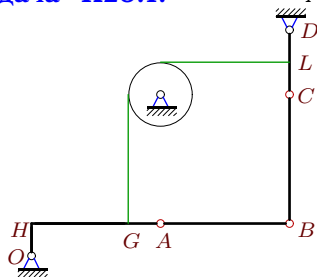


Плоский механизм с блоком

В указанном положении механизма задана угловая скорость одного из звеньев. 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 K28.1.

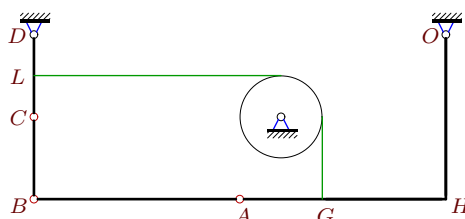
Аксенов Михаил



$OH = 1, CB = HA = AB = 4, CD = 2,$
 $r = 1, CL = 1, AG = 1, \omega_{disk} = -12 \text{ c}^{-1}.$

Задача K28.2.

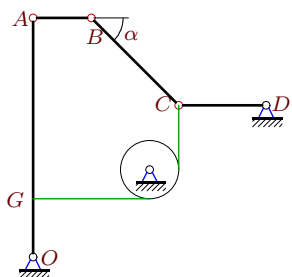
Барашков Александр



$OH = 4, CB = 2, HA = AB = 5, CD = 2,$
 $r = 1, CL = 1, AG = 2, \omega_{disk} = -3 \text{ c}^{-1}.$

Задача K28.3.

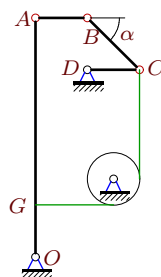
Белозёрова Ирина



$OA = 8, CB = 3\sqrt{2}, CD = 3, AB = 2,$
 $OG = 2, r = 1, \omega_{AB} = 15 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28.4.

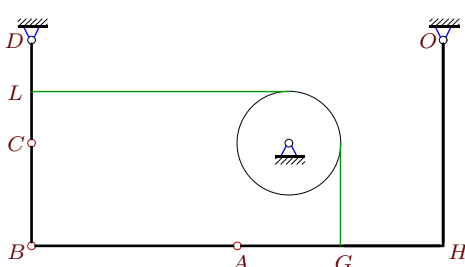
Воронов Дмитрий



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

Задача K28.5.

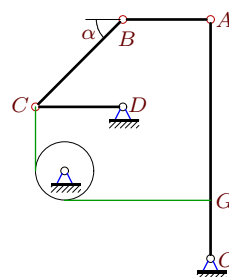
Завьялов Борис



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

Задача K28.6.

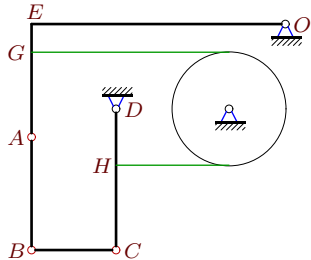
Карташов Евгений



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

Задача K28.7.

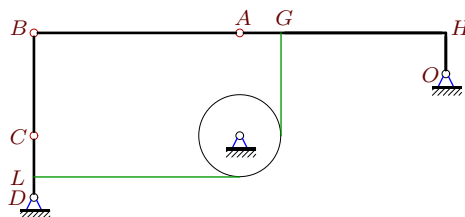
Коротеев Кирилл



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

Задача K28.8.

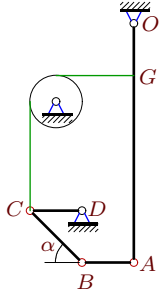
Кочнов Иван



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

Задача K28.9.

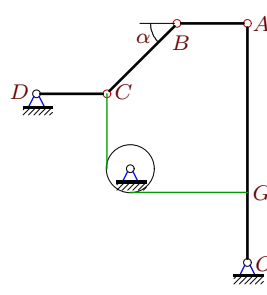
Леонтьев Владимир



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

Задача K28.10.

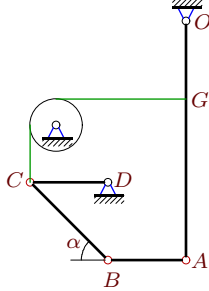
Любимов Сергей



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

Задача K28.11.

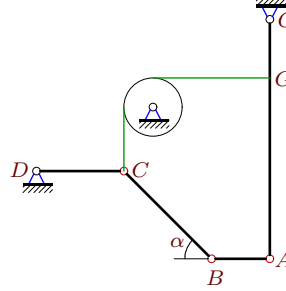
Мильчакова Мария



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

Задача K28.12.

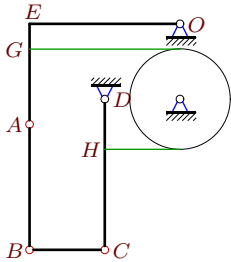
Моисеенко Глеб



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

Задача K28.13.

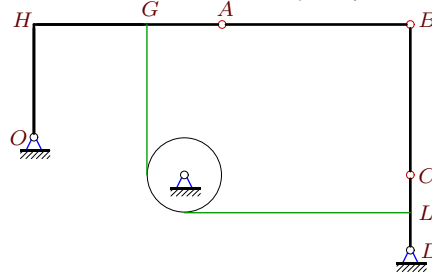
Никулин Дмитрий



$OE = 6, CB = 3, AB = 5, CD = 6, r = 2,$
 $CH = 4, AG = 3, GE = 1, \omega_{OA} = -10 \text{ c}^{-1}.$

Задача K28.14.

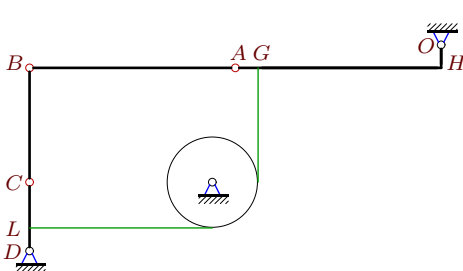
Образцов Александр



$OH = 3, CB = 4, HA = AB = 5, CD = 2,$
 $r = 1, CL = 1, AG = 2, \omega_{OA} = 4 \text{ c}^{-1}.$

Задача K28.15.

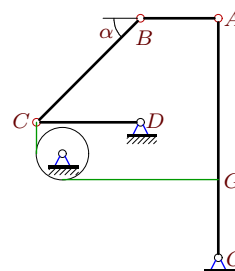
Посохов Андрей



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

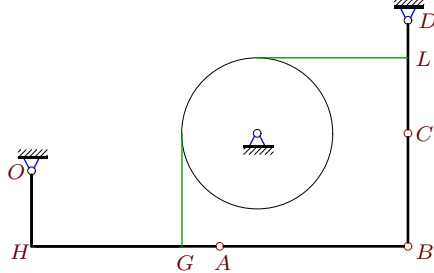
Задача K28.16.

Прошина Анастасия



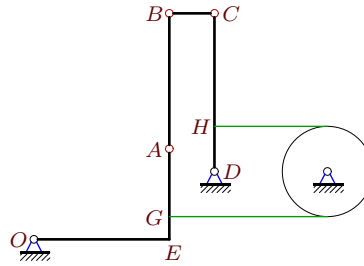
$OA = 9, CB = 4\sqrt{2}, CD = 4, AB = 3,$
 $OG = 3, r = 1, \omega_{OA} = -4 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28.17. Старостин Алексей



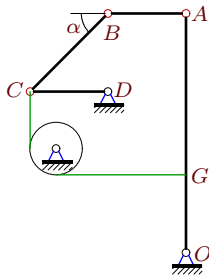
$OH = 2, CB = 3, HA = AB = 5, CD = 3,$
 $r = 2, CL = 2, AG = 1, \omega_{CB} = -10 \text{ c}^{-1}.$

Задача K28.18. Терехова Ангелина



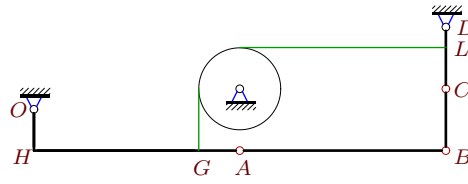
$OE = 6, CB = 2, AB = 6, CD = 7, r = 2,$
 $CH = 5, AG = 3, GE = 1, \omega_{AB} = 5 \text{ c}^{-1}.$

Задача K28.19. Чальий Дмитрий



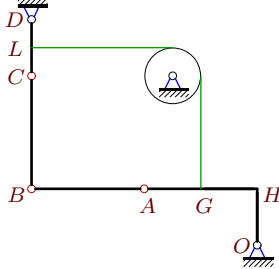
$OA = 9, CB = 3\sqrt{2}, CD = 3, AB = 3,$
 $OG = 3, r = 1, \omega_{disk} = 3 \text{ c}^{-1}, \alpha = 45^\circ.$

Задача K28.20. Московой Валентин



$OH = 2, CB = 3, HA = AB = 10, CD = 3,$
 $r = 2, CL = 2, AG = 2, \omega_{disk} = -12 \text{ c}^{-1}.$

Задача K28.21. Титков Евгений



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