

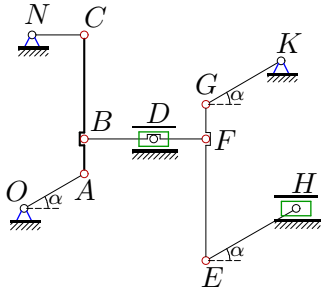
Кинематический анализ механизма (7 звеньев)

Плоский многосвязный механизм с одной степенью свободы приводится в движение кривошипом, который вращается против часовой стрелки с постоянной угловой скоростью. Найти скорости всех шарниров механизма (в см/с) и ускорения трех заданных шарниров (в м/с²). Размеры даны в см.

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)

<p>Задача К9.1.</p>		<p style="text-align: right;"><i>Бродников Иван</i></p> <p>$\omega_{NC} = 3 \text{ рад/с}, \alpha = 45^\circ,$ $AB = 25, BC = 10,$ $BF = 50, FD = 50,$ $NC = 25, EH = 30,$ $FE = 50, FG = 30,$ $OA = 30, KG = 25.$ $a_A, a_B, a_C - ?$</p>
<p>Задача К9.2.</p>		<p style="text-align: right;"><i>Генералов Сергей</i></p> <p>$\omega_{NB} = 3 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 20, BC = 10,$ $BF = 80, NF = 20,$ $CD = 40, EH = 30,$ $FG = 25, GE = 10,$ $OA = 20, KG = 25.$ $a_A, a_B, a_C - ?$</p>
<p>Задача К9.3.</p>		<p style="text-align: right;"><i>Голованов Алексей</i></p> <p>$\omega_{OA} = 3 \text{ рад/с}, \alpha = 45^\circ,$ $AB = 30, BC = 30,$ $DB = 20, DF = 30,$ $NC = 15, EH = 30,$ $FE = 15, FG = 10,$ $OA = 30, KG = 25.$ $a_A, a_B, a_C - ?$</p>
<p>Задача К9.4.</p>		<p style="text-align: right;"><i>Дощечкин Артём</i></p> <p>$\omega_{NC} = 3 \text{ рад/с}, \alpha = 45^\circ,$ $AB = 20, BC = 10,$ $BF = 50, FD = 50,$ $NC = 15, EH = 30,$ $FE = 35, FG = 25,$ $OA = 20, KG = 25.$ $a_A, a_B, a_C - ?$</p>
<p>Задача К9.5.</p>		<p style="text-align: right;"><i>Дружинин Алексей</i></p> <p>$\omega_{OA} = 1 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 30, BC = 30,$ $NB = 20, NF = 15,$ $CD = 15, EH = 30,$ $FE = 15, FG = 20,$ $OA = 30, KG = 25.$ $a_A, a_B, a_C - ?$</p>

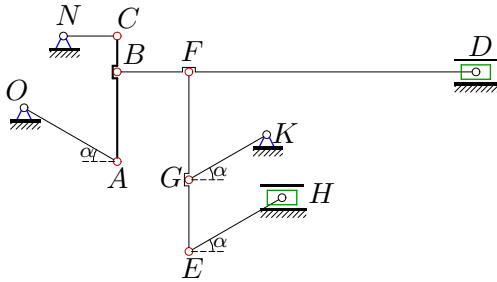
Задача K9.6.



Агеев Алексей

$\omega_{NC} = 2 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 10, BC = 30,$
 $DB = 20, DF = 15,$
 $NC = 15, EH = 30,$
 $FE = 35, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

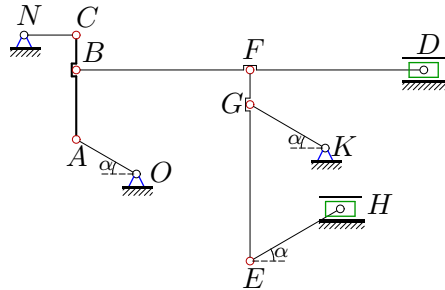
Задача K9.7.



Колпаков Егор

$\omega_{OA} = 1 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 25, BC = 10,$
 $BF = 20, FD = 80,$
 $NC = 15, EH = 30,$
 $FE = 50, FG = 30,$
 $OA = 30, KG = 25.$
 $a_A, a_B, a_C - ?$

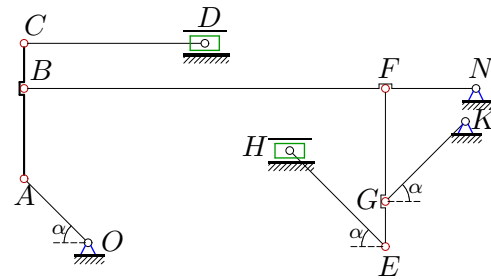
Задача K9.8.



Кузьменко Илья

$\omega_{NC} = 3 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 20, BC = 10,$
 $BF = 50, FD = 50,$
 $NC = 15, EH = 30,$
 $FE = 55, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

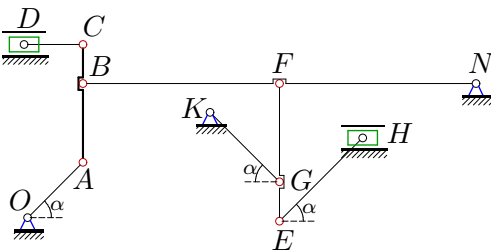
Задача K9.9.



Лакштанкин Александр

$\omega_{OA} = 3 \text{ рад/с}, \alpha = 45^\circ,$
 $AB = 20, BC = 10,$
 $BF = 80, NF = 20,$
 $CD = 40, EH = 30,$
 $FG = 25, GE = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

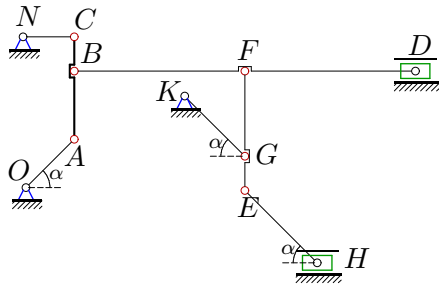
Задача K9.10.



Мухамедов Тимур

$\omega_{OA} = 3 \text{ рад/с}, \alpha = 45^\circ,$
 $AB = 20, BC = 10,$
 $BF = 50, NF = 50,$
 $CD = 15, EH = 30,$
 $FG = 25, GE = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

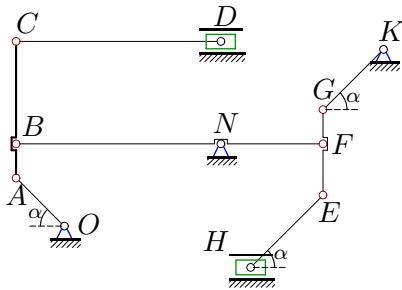
Задача K9.11.



Обухов Олег

$\omega_{OA} = 3 \text{ рад/с}$, $\alpha = 45^\circ$,
 $AB = 20$, $BC = 10$,
 $BF = 50$, $FD = 50$,
 $NC = 15$, $EH = 30$,
 $FE = 35$, $FG = 25$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

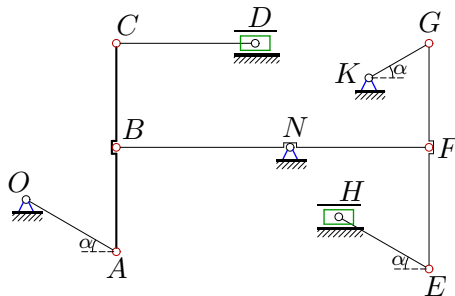
Задача K9.12.



Останин Дмитрий

$\omega_{KG} = 2 \text{ рад/с}$, $\alpha = 45^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 60$, $NF = 30$,
 $CD = 60$, $EH = 30$,
 $FE = 15$, $FG = 10$,
 $OA = 20$, $KG = 25$.
 a_G , a_F , a_E - ?

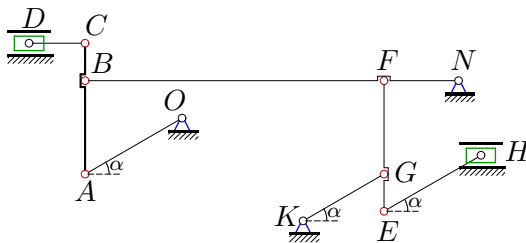
Задача K9.13.



Плякина Карина

$\omega_{KG} = 3 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 30$, $BC = 30$,
 $NB = 50$, $NF = 40$,
 $CD = 40$, $EH = 30$,
 $FE = 35$, $FG = 30$,
 $OA = 30$, $KG = 20$.
 a_G , a_F , a_E - ?

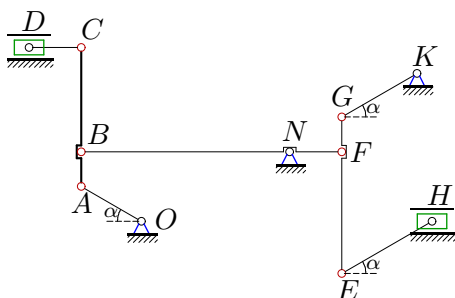
Задача K9.14.



Полторакин Роман

$\omega_{OA} = 3 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 80$, $NF = 20$,
 $CD = 15$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

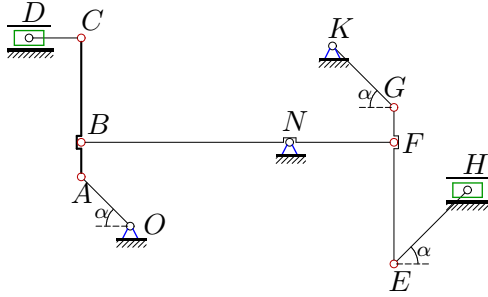
Задача K9.15.



Романов Игорь

$\omega_{BF} = 2 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 60$, $NF = 15$,
 $CD = 15$, $EH = 30$,
 $FE = 35$, $FG = 10$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

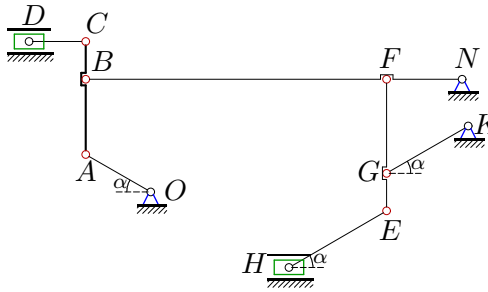
Задача K9.16.



Скачков Роман

$\omega_{KG} = 2$ рад/с, $\alpha = 45^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 60$, $NF = 30$,
 $CD = 15$, $EH = 30$,
 $FE = 35$, $FG = 10$,
 $OA = 20$, $KG = 25$.
 a_G , a_F , a_E - ?

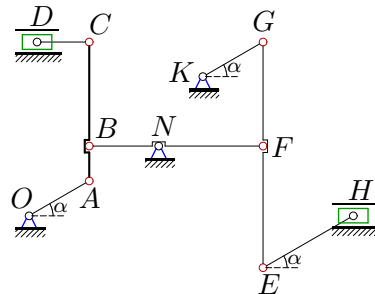
Задача K9.17.



Сурков Алексей

$\omega_{NB} = 3$ рад/с, $\alpha = 30^\circ$,
 $AB = 20$, $BC = 10$,
 $BF = 80$, $NF = 20$,
 $CD = 15$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

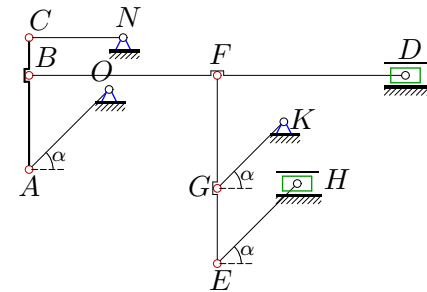
Задача K9.18.



Сухих Александра

$\omega_{BF} = 3$ рад/с, $\alpha = 30^\circ$,
 $AB = 10$, $BC = 30$,
 $NB = 20$, $NF = 30$,
 $CD = 15$, $EH = 30$,
 $FE = 35$, $FG = 30$,
 $OA = 20$, $KG = 20$.
 a_A , a_B , a_C - ?

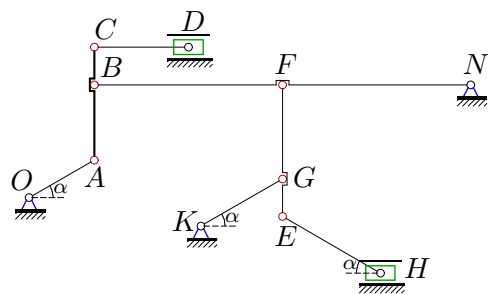
Задача K9.19.



Хоруженко Кирилл

$\omega_{OA} = 1$ рад/с, $\alpha = 45^\circ$,
 $AB = 25$, $BC = 10$,
 $BF = 50$, $FD = 50$,
 $NC = 25$, $EH = 30$,
 $FE = 50$, $FG = 30$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.20.



Чернышев Александр

$\omega_{NB} = 3$ рад/с, $\alpha = 30^\circ$,
 $AB = 20$, $BC = 10$,
 $BF = 50$, $NF = 50$,
 $CD = 25$, $EH = 30$,
 $FG = 25$, $GE = 10$,
 $OA = 20$, $KG = 25$.
 a_A , a_B , a_C - ?

