

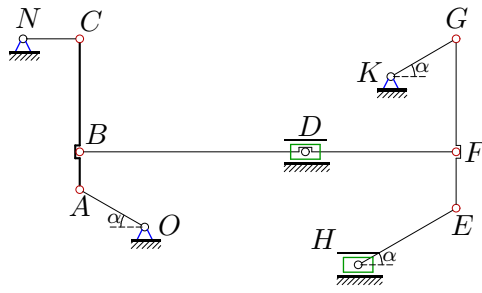
Кинематический анализ механизма (7 звеньев)

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>Аксенов Михаил</i></p> <p> $\omega_{NC} = 2 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 20, BC = 10,$ $BF = 50, FD = 50,$ $NC = 15, EH = 30,$ $FE = 34, FG = 10,$ $OA = 20, KG = 25.$ $a_A, a_B, a_C - ?$ </p>
<p>Задача К9.2.</p>		<p style="text-align: right;"><i>Барашков Александр</i></p> <p> $\omega_{BF} = 3 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 30, BC = 30,$ $NB = 20, NF = 30,$ $CD = 15, EH = 30,$ $FE = 35, FG = 10,$ $OA = 30, KG = 25.$ $a_A, a_B, a_C - ?$ </p>
<p>Задача К9.3.</p>		<p style="text-align: right;"><i>Белозёрова Ирина</i></p> <p> $\omega_{OA} = 4 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 20, BC = 10,$ $BF = 50, NF = 50,$ $CD = 25, EH = 30,$ $FG = 30, GE = 20,$ $OA = 20, KG = 25.$ $a_A, a_B, a_C - ?$ </p>
<p>Задача К9.4.</p>		<p style="text-align: right;"><i>Воронов Дмитрий</i></p> <p> $\omega_{NC} = 2 \text{ рад/с}, \alpha = 45^\circ,$ $AB = 20, BC = 10,$ $BF = 80, FD = 20,$ $NC = 40, EH = 30,$ $FE = 35, FG = 25,$ $OA = 20, KG = 25.$ $a_A, a_B, a_C - ?$ </p>
<p>Задача К9.5.</p>		<p style="text-align: right;"><i>Завьялов Борис</i></p> <p> $\omega_{OA} = 2 \text{ рад/с}, \alpha = 30^\circ,$ $AB = 10, BC = 30,$ $DB = 50, DF = 30,$ $NC = 40, EH = 30,$ $FE = 35, FG = 30,$ $OA = 20, KG = 20.$ $a_A, a_B, a_C - ?$ </p>

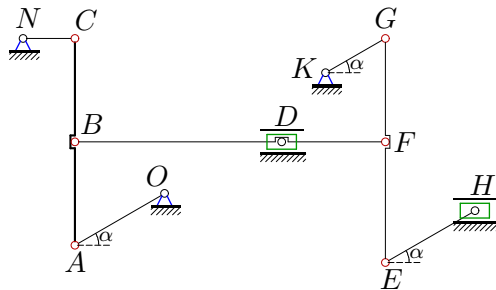
Задача K9.11.



Мильчакова Мария

$\omega_{OA} = 1 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 10$, $BC = 30$,
 $DB = 60$, $DF = 40$,
 $NC = 15$, $EH = 30$,
 $FE = 15$, $FG = 30$,
 $OA = 20$, $KG = 20$.
 a_A , a_B , a_C - ?

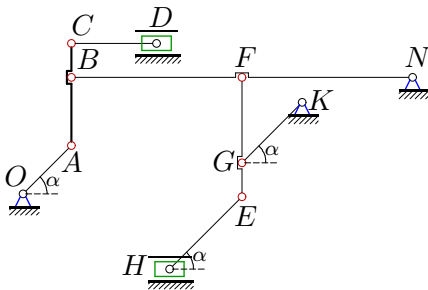
Задача K9.12.



Моисеенко Глеб

$\omega_{NC} = 3 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 30$, $BC = 30$,
 $DB = 60$, $DF = 30$,
 $NC = 15$, $EH = 30$,
 $FE = 35$, $FG = 30$,
 $OA = 30$, $KG = 20$.
 a_A , a_B , a_C - ?

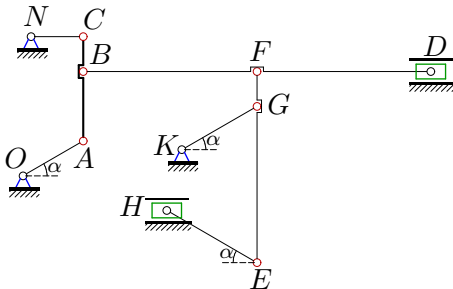
Задача K9.13.



Никулин Дмитрий

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

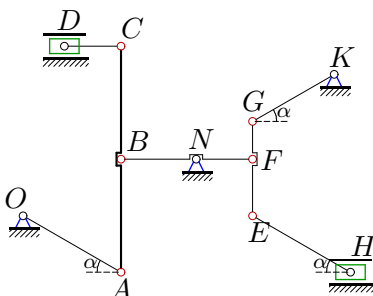
Задача K9.14.



Образцов Александр

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

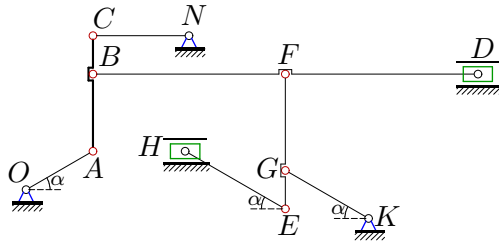
Задача K9.15.



Посохов Андрей

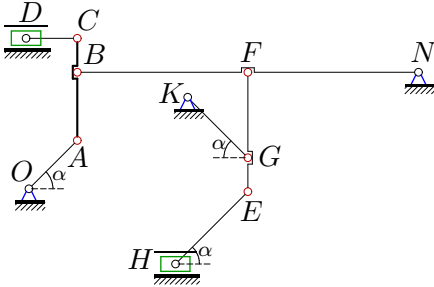
$\omega_{BF} = 2 \text{ рад/с}$, $\alpha = 30^\circ$,
 $AB = 30$, $BC = 30$,
 $NB = 20$, $NF = 15$,
 $CD = 15$, $EH = 30$,
 $FE = 15$, $FG = 10$,
 $OA = 30$, $KG = 25$.
 a_A , a_B , a_C - ?

Задача K9.16.



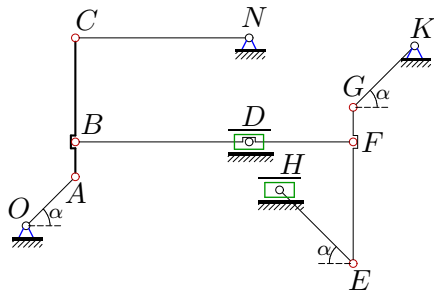
Прошина Анастасия
 $\omega_{NC} = 2 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 20, BC = 10,$
 $BF = 50, FD = 50,$
 $NC = 25, EH = 30,$
 $FE = 35, FG = 25,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.17.



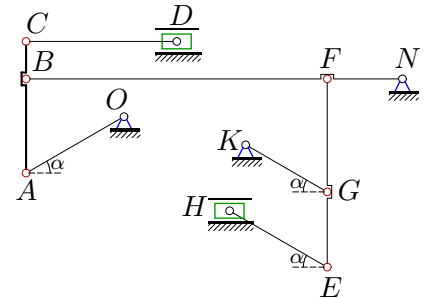
Старостин Алексей
 $\omega_{OA} = 3 \text{ рад/с}, \alpha = 45^\circ,$
 $AB = 20, BC = 10,$
 $BF = 50, NF = 50,$
 $CD = 15, EH = 30,$
 $FG = 25, GE = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.18.



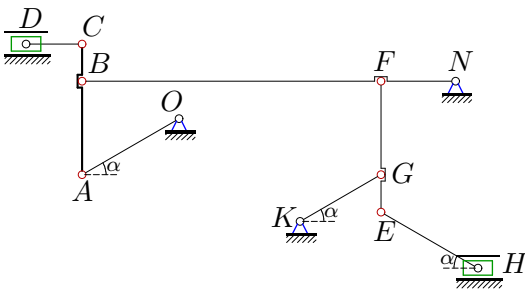
Терехова Ангелина
 $\omega_{OA} = 3 \text{ рад/с}, \alpha = 45^\circ,$
 $AB = 10, BC = 30,$
 $DB = 50, DF = 30,$
 $NC = 50, EH = 30,$
 $FE = 35, FG = 10,$
 $OA = 20, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.19.



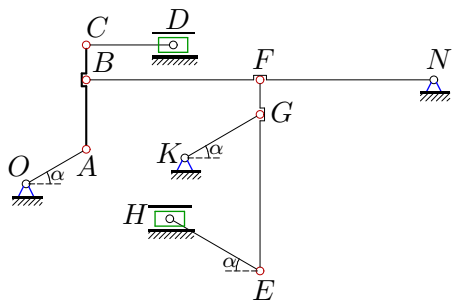
Чалый Дмитрий
 $\omega_{NB} = 4 \text{ рад/с}, \alpha = 30^\circ,$
 $AB = 25, BC = 10,$
 $BF = 80, NF = 20,$
 $CD = 40, EH = 30,$
 $FG = 30, GE = 20,$
 $OA = 30, KG = 25.$
 $a_A, a_B, a_C - ?$

Задача K9.20.



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

Задача К9.21.



Титков Евгений

$$\omega_{KG} = 2 \text{ рад/с}, \alpha = 30^\circ,$$

$$AB = 20, BC = 10,$$

$$BF = 50, NF = 50,$$

$$CD = 25, EH = 30,$$

$$FG = 10, GE = 45,$$

$$OA = 20, KG = 25.$$

$$a_G, a_F, a_E - ?$$