

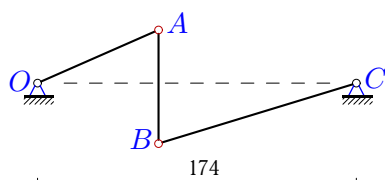
Уравнение трех угловых скоростей

Подобрать длины звеньев (в сантиметрах) шарнирного четырехзвенника так, чтобы в некоторый момент движения угловые скорости его звеньев были бы равны заданным. Положение опорных шарниров четырехзвенника известно. Расстояния даны в сантиметрах, угловые скорости — в рад/с.

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова. — М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.179.)

Задача K18.1.

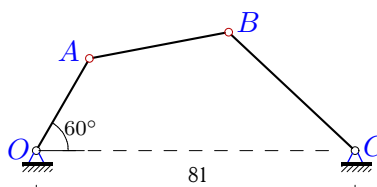
2



$$\omega_{OA}=2, \\ \omega_{AB}=0.3, \omega_{BC}=-1.2, AB \perp OC, AB = 62.$$

Задача K18.2.

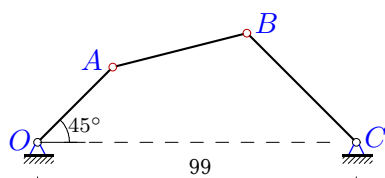
2



$$\omega_{OA}=1.7, \\ \omega_{AB}=-1.6, \omega_{BC}=1, OA = 27.$$

Задача K18.3.

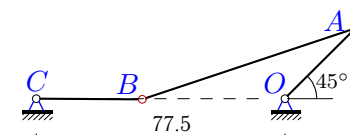
2



$$\omega_{OA}=4, \\ \omega_{AB}=-4, \omega_{BC}=1.6, OA = 33.$$

Задача K18.4.

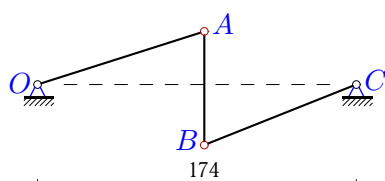
2



$$\omega_{OA}=3, \\ \omega_{AB}=3, \omega_{BC}=-4, OA = 31.$$

Задача K18.5.

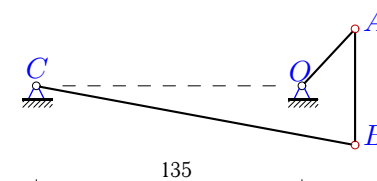
2



$$\omega_{OA}=-1.8, \\ \omega_{AB}=0.2, \omega_{BC}=2, AB \perp OC, AB = 62.$$

Задача K18.6.

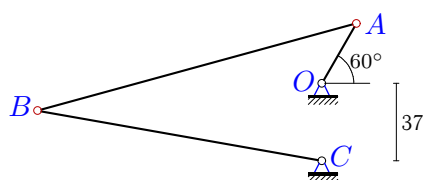
2



$$\omega_{OA}=6, \\ \omega_{AB}=3, \omega_{BC}=1, AB \perp OC, AB = 59.$$

Задача K18.7.

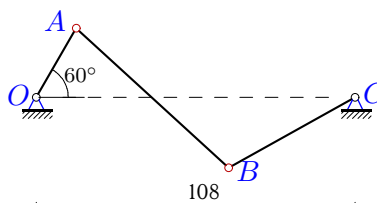
2



$$\omega_{OA}=10, \\ \omega_{AB}=5, \omega_{BC}=4, OA = 33.$$

Задача K18.8.

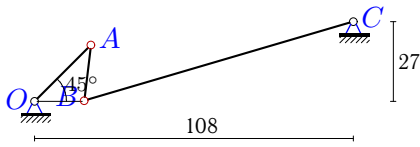
2



$$\omega_{OA}=-1.8, \\ \omega_{AB}=-0.4, \omega_{BC}=1, OA = 27.$$

Задача K18.9.

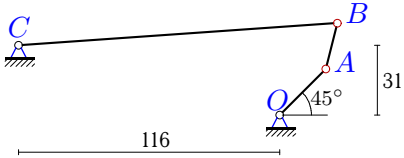
2



$\omega_{OA}=1,$
 $\omega_{AB}=0.7, \omega_{BC}=-0.2, OA=27.$

Задача K18.11.

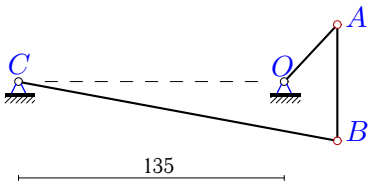
2



$\omega_{OA}=2,$
 $\omega_{AB}=-1.9, \omega_{BC}=0.2, OA=29.$

Задача K18.13.

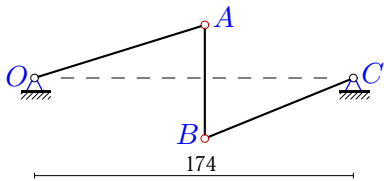
2



$\omega_{OA}=1,$
 $\omega_{AB}=0.6, \omega_{BC}=0.2, AB \perp OC, AB=59.$

Задача K18.15.

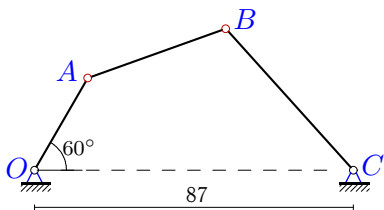
2



$\omega_{OA}=-1.7,$
 $\omega_{AB}=0.2, \omega_{BC}=2, AB \perp OC, AB=62.$

Задача K18.17.

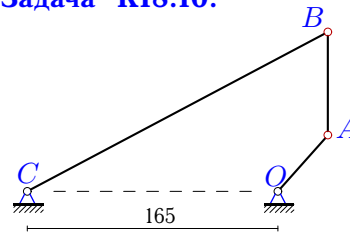
2



$\omega_{OA}=5,$
 $\omega_{AB}=-4, \omega_{BC}=2, OA=29.$

Задача K18.10.

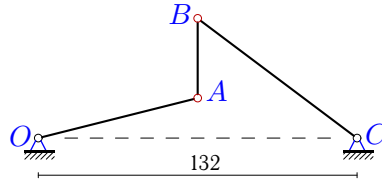
2



$\omega_{OA}=4,$
 $\omega_{AB}=-1.1, \omega_{BC}=0.7, AB \perp OC, AB=68.$

Задача K18.12.

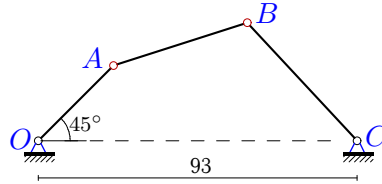
2



$\omega_{OA}=4,$
 $\omega_{AB}=-8, \omega_{BC}=-4, AB \perp OC, AB=33.$

Задача K18.14.

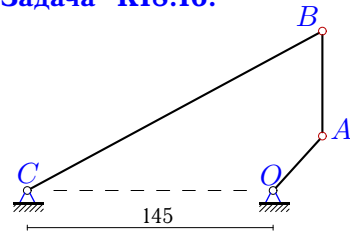
2



$\omega_{OA}=3,$
 $\omega_{AB}=-3, \omega_{BC}=1, OA=31.$

Задача K18.16.

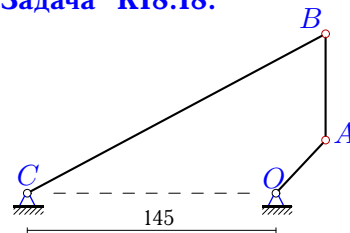
2



$\omega_{OA}=2,$
 $\omega_{AB}=-0.5, \omega_{BC}=0.3, AB \perp OC, AB=62.$

Задача K18.18.

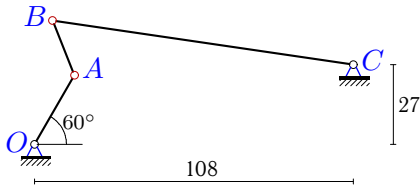
2



$\omega_{OA}=2,$
 $\omega_{AB}=-0.5, \omega_{BC}=0.3, AB \perp OC, AB=62.$

Задача K18.19.

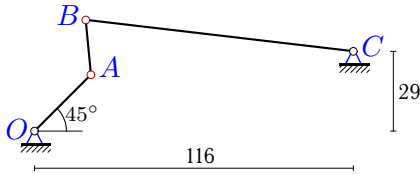
2



$\omega_{OA} = -4,$
 $\omega_{AB} = 6, \omega_{BC} = 1, OA = 27.$

Задача K18.21.

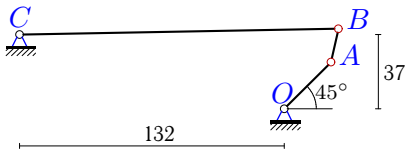
2



$\omega_{OA} = 2,$
 $\omega_{AB} = -2, \omega_{BC} = -0.5, OA = 29.$

Задача K18.23.

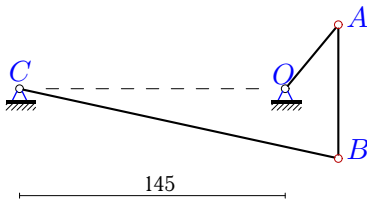
2



$\omega_{OA} = 4,$
 $\omega_{AB} = -6, \omega_{BC} = 0.5, OA = 33.$

Задача K18.25.

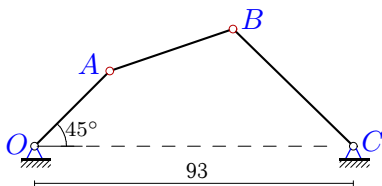
2



$\omega_{OA} = 2,$
 $\omega_{AB} = 1.1, \omega_{BC} = 0.3, AB \perp OC, AB = 73.$

Задача K18.27.

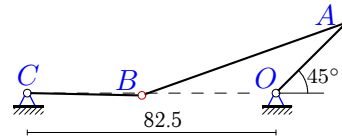
2



$\omega_{OA} = 3,$
 $\omega_{AB} = -3, \omega_{BC} = 0.9, OA = 31.$

Задача K18.20.

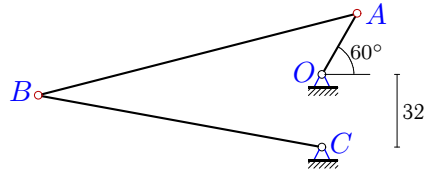
2



$\omega_{OA} = 4,$
 $\omega_{AB} = 4, \omega_{BC} = -4, OA = 33.$

Задача K18.22.

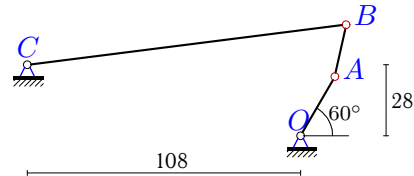
2



$\omega_{OA} = 7,$
 $\omega_{AB} = 6, \omega_{BC} = 3, OA = 31.$

Задача K18.24.

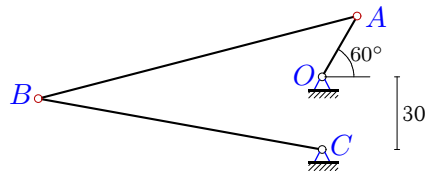
2



$\omega_{OA} = 15,$
 $\omega_{AB} = -16, \omega_{BC} = 1, OA = 27.$

Задача K18.26.

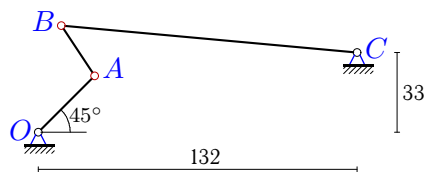
2



$\omega_{OA} = 5,$
 $\omega_{AB} = 4, \omega_{BC} = 2, OA = 29.$

Задача K18.28.

2



$\omega_{OA} = 4,$
 $\omega_{AB} = -5, \omega_{BC} = -1.3, OA = 33.$

K18 Ответы.
Уравнение трех угловых скоростей

08.04.2012

№	OA	AB	BC
1	71.430	62.000	113.629
2	27.000	35.353	44.168
3	33.000	39.571	50.084
4	31.000	69.741	33.214
5	96.173	62.000	88.646
6	35.860	59.000	165.823
7	33.000	101.745	92.624
8	27.000	68.566	50.143
9	27.000	19.510	94.416
10	50.997	68.000	225.929
11	29.000	21.542	143.387
12	68.031	33.000	82.500
13	44.825	59.000	171.309
14	31.000	35.923	49.401
15	98.772	62.000	86.052
16	38.808	62.000	193.426
17	29.000	38.363	52.280
18	38.808	62.000	193.426
19	27.000	19.723	103.601
20	33.000	68.671	41.250
21	29.000	24.918	101.258
22	31.000	21.012	55.293
23	33.000	15.598	157.755
24	27.000	21.440	127.311
25	42.836	73.000	174.911
26	29.000	23.063	47.993
27	31.000	35.297	50.668
28	33.000	25.384	122.226

K18 файл o18k2A