

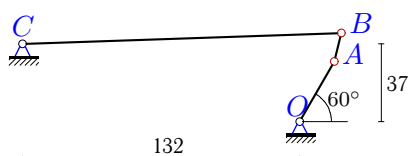
Уравнение трех угловых скоростей

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

Задача K18.1.

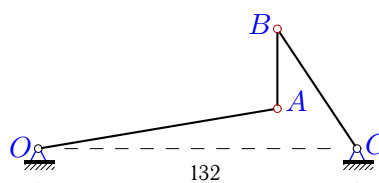
6



$$\omega_{OA}=65, \\ \omega_{AB}=-135, \omega_{BC}=4, OA=33.$$

Задача K18.2.

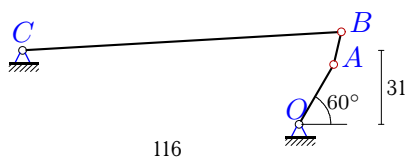
6



$$\omega_{OA}=-1.3, \\ \omega_{AB}=7, \omega_{BC}=4, AB \perp OC, AB=33.$$

Задача K18.3.

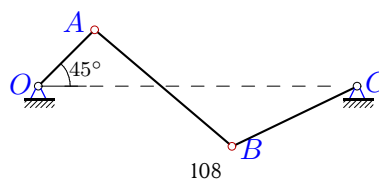
6



$$\omega_{OA}=31, \\ \omega_{AB}=-56, \omega_{BC}=2, OA=29.$$

Задача K18.4.

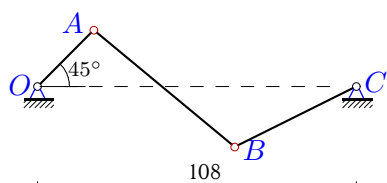
6



$$\omega_{OA}=1, \\ \omega_{AB}=0.2, \omega_{BC}=-0.6, OA=27.$$

Задача K18.5.

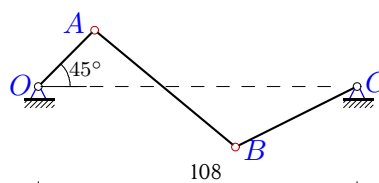
6



$$\omega_{OA}=1, \\ \omega_{AB}=0.2, \omega_{BC}=-0.6, OA=27.$$

Задача K18.6.

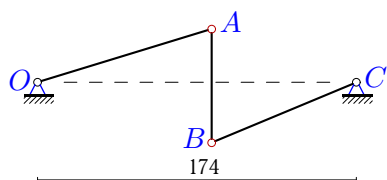
6



$$\omega_{OA}=1, \\ \omega_{AB}=0.2, \omega_{BC}=-0.6, OA=27.$$

Задача K18.7.

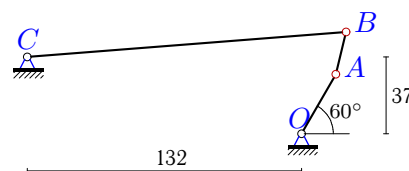
6



$$\omega_{OA}=-1.7, \\ \omega_{AB}=0.3, \omega_{BC}=2, AB \perp OC, AB=62.$$

Задача K18.8.

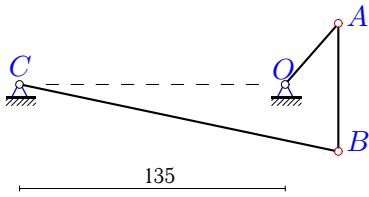
6



$$\omega_{OA}=64, \\ \omega_{AB}=-87, \omega_{BC}=4, OA=33.$$

Задача K18.9.

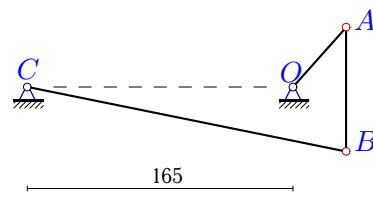
6



$\omega_{OA}=1,$
 $\omega_{AB}=0.6, \omega_{BC}=0.2, AB \perp OC, AB = 65.$

Задача K18.10.

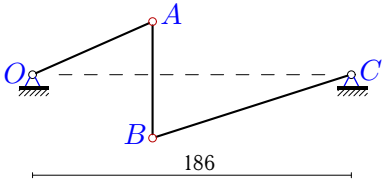
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$\omega_{OA}=4,$
 $\omega_{AB}=2, \omega_{BC}=0.7, AB \perp OC, AB = 77.$

Задача K18.11.

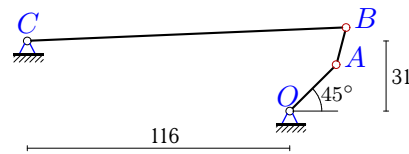
6



$\omega_{OA}=3,$
 $\omega_{AB}=0.4, \omega_{BC}=-1.8, AB \perp OC, AB = 68.$

Задача K18.12.

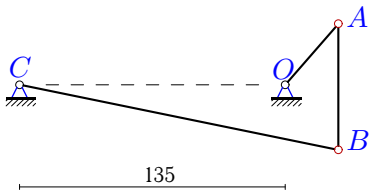
6



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

Задача K18.13.

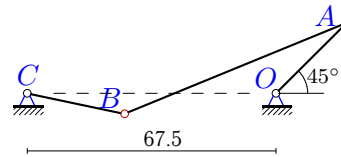
6



$\omega_{OA}=1,$
 $\omega_{AB}=0.6, \omega_{BC}=0.2, AB \perp OC, AB = 64.$

Задача K18.14.

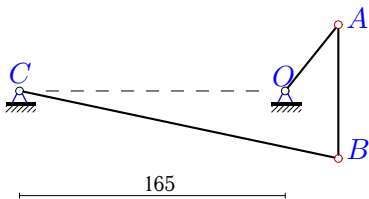
6



$\omega_{OA}=1,$
 $\omega_{AB}=0.6, \omega_{BC}=-0.7, OA = 27.$

Задача K18.15.

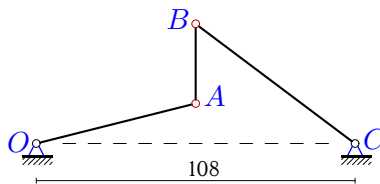
6



$\omega_{OA}=24,$
 $\omega_{AB}=14, \omega_{BC}=4, AB \perp OC, AB = 83.$

Задача K18.16.

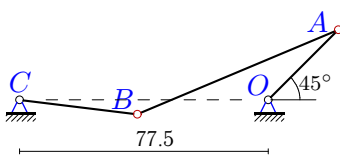
6



$\omega_{OA}=1,$
 $\omega_{AB}=-2, \omega_{BC}=-1, AB \perp OC, AB = 27.$

Задача K18.17.

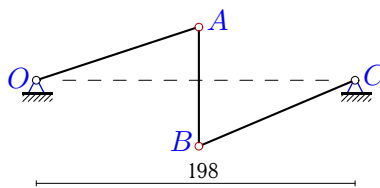
6



$\omega_{OA}=3,$
 $\omega_{AB}=2, \omega_{BC}=-1.9, OA = 31.$

Задача K18.18.

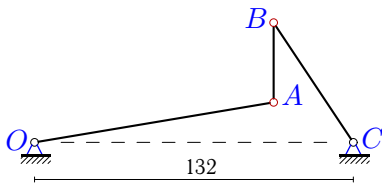
6



$\omega_{OA}=-4,$
 $\omega_{AB}=0.5, \omega_{BC}=4, AB \perp OC, AB = 74.$

Задача K18.19.

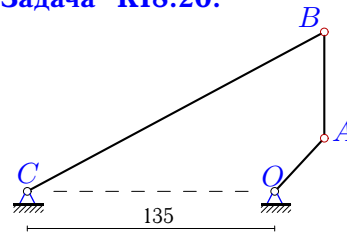
6



$\omega_{OA} = -1.3,$
 $\omega_{AB} = 7, \omega_{BC} = 4, AB \perp OC, AB = 33.$

Задача K18.20.

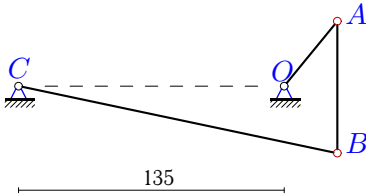
6



$\omega_{OA} = 1,$
 $\omega_{AB} = -0.2, \omega_{BC} = 0.2, AB \perp OC, AB = 58.$

Задача K18.21.

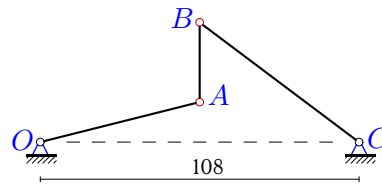
6



$\omega_{OA} = 1,$
 $\omega_{AB} = 0.6, \omega_{BC} = 0.2, AB \perp OC, AB = 67.$

Задача K18.22.

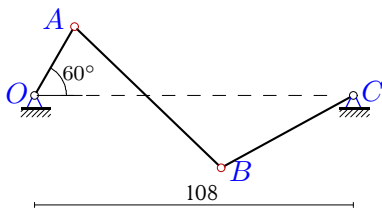
6



$\omega_{OA} = 1,$
 $\omega_{AB} = -2, \omega_{BC} = -1, AB \perp OC, AB = 27.$

Задача K18.23.

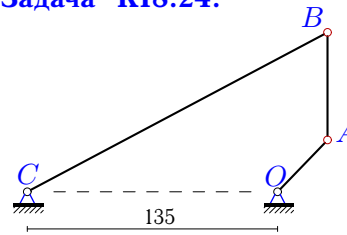
6



$\omega_{OA} = -1.9,$
 $\omega_{AB} = -0.4, \omega_{BC} = 1, OA = 27.$

Задача K18.24.

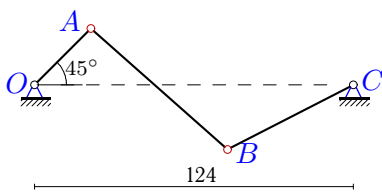
6



$\omega_{OA} = 1,$
 $\omega_{AB} = -0.2, \omega_{BC} = 0.2, AB \perp OC, AB = 58.$

Задача K18.25.

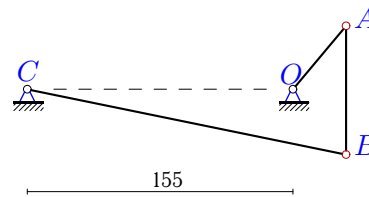
6



$\omega_{OA} = 3,$
 $\omega_{AB} = 0.4, \omega_{BC} = -1.8, OA = 31.$

Задача K18.26.

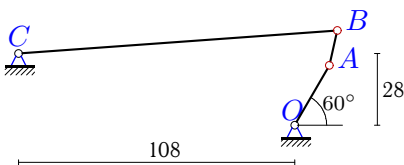
6



$\omega_{OA} = 18,$
 $\omega_{AB} = 10, \omega_{BC} = 3, AB \perp OC, AB = 75.$

Задача K18.27.

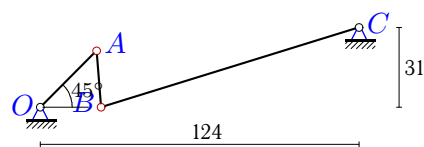
6



$\omega_{OA} = 15,$
 $\omega_{AB} = -25, \omega_{BC} = 1, OA = 27.$

Задача K18.28.

6



$\omega_{OA} = 3,$
 $\omega_{AB} = 2, \omega_{BC} = -0.7, OA = 31.$

K18 Ответы.
Уравнение трех угловых скоростей

08.04.2012

№	<i>OA</i>	<i>AB</i>	<i>BC</i>
1	33.000	14.035	152.031
2	101.359	33.000	60.984
3	29.000	14.009	133.974
4	27.000	57.369	49.889
5	27.000	57.369	49.889
6	27.000	57.369	49.889
7	98.273	62.000	86.686
8	33.000	21.090	154.049
9	46.854	65.000	171.851
10	46.315	77.000	205.372
11	76.396	68.000	121.946
12	29.000	20.563	143.028
13	46.509	64.000	171.757
14	27.000	66.201	25.953
15	53.021	83.000	202.302
16	55.662	27.000	67.500
17	31.000	70.868	34.583
18	104.159	74.000	107.395
19	101.359	33.000	60.984
20	44.498	58.000	189.857
21	47.553	67.000	172.043
22	55.662	27.000	67.500
23	27.000	69.026	51.785
24	44.498	58.000	189.857
25	31.000	71.856	54.942
26	46.755	75.000	190.252
27	27.000	14.018	124.944
28	31.000	22.103	104.691

K18 файл o18k6A