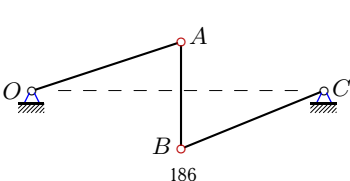
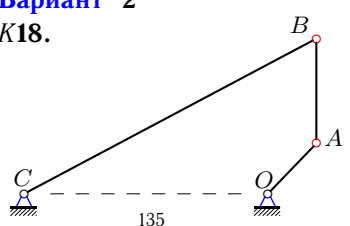
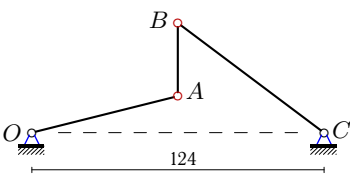
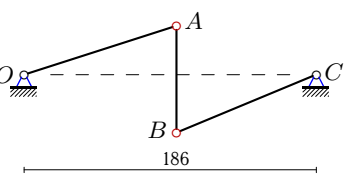
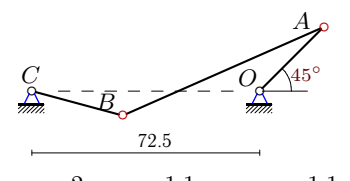
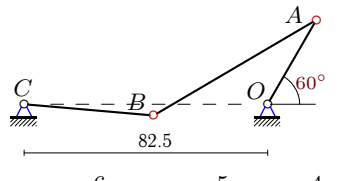
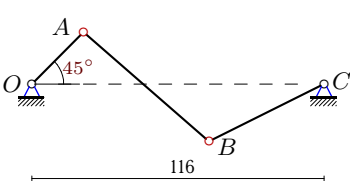
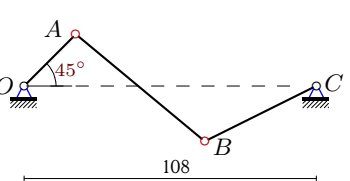


Уравнение трех угловых скоростей

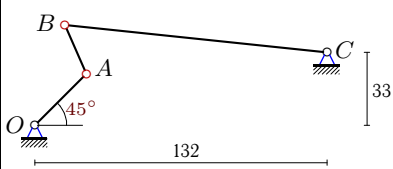
Подобрать длины звеньев (в см) шарнирного четырехзвенника так, чтобы в некоторый момент движения угловые скорости его звеньев были равны заданным. Положение опорных шарниров четырехзвенника известно. Расстояния даны в см, угловые скорости — в рад/с.

Кирсанов М.Н. Решебник. Теоретическая механика с. 179.

<p>Вариант 1 К18.</p>  <p>$\omega_{OA} = -3, \omega_{AB} = 0.3, \omega_{BC} = 3,$ $AB \perp OC, AB = 68.$</p>	<p>Вариант 2 К18.</p>  <p>$\omega_{OA} = 6, \omega_{AB} = -1.4, \omega_{BC} = 1,$ $AB \perp OC, AB = 58.$</p>
<p>Вариант 3 К18.</p>  <p>$\omega_{OA} = 3, \omega_{AB} = -6, \omega_{BC} = -3,$ $AB \perp OC, AB = 31.$</p>	<p>Вариант 4 К18.</p>  <p>$\omega_{OA} = -3, \omega_{AB} = 0.4, \omega_{BC} = 3,$ $AB \perp OC, AB = 68.$</p>
<p>Вариант 5 К18.</p>  <p>$\omega_{OA} = 2, \omega_{AB} = 1.1, \omega_{BC} = -1.1,$ $OA = 29.$</p>	<p>Вариант 6 К18.</p>  <p>$\omega_{OA} = -6, \omega_{AB} = -5, \omega_{BC} = 4,$ $OA = 33.$</p>
<p>Вариант 7 К18.</p>  <p>$\omega_{OA} = 2, \omega_{AB} = 0.3, \omega_{BC} = -1.2,$ $OA = 29.$</p>	<p>Вариант 8 К18.</p>  <p>$\omega_{OA} = 1, \omega_{AB} = 0.2, \omega_{BC} = -0.6,$ $OA = 27.$</p>

Вариант 9

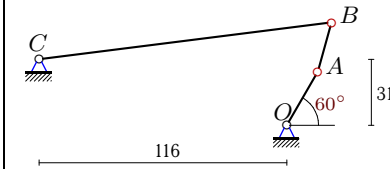
K18.



$$\omega_{OA}=4, \omega_{AB}=-5, \omega_{BC}=-1.2, \\ OA=33.$$

Вариант 10

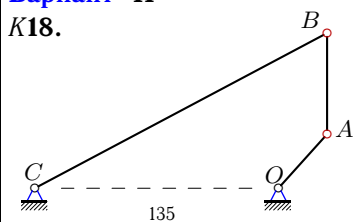
K18.



$$\omega_{OA}=35, \omega_{AB}=-37, \omega_{BC}=2, \\ OA=29.$$

Вариант 11

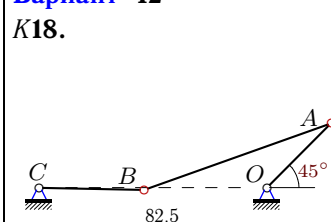
K18.



$$\omega_{OA}=1, \omega_{AB}=-0.3, \omega_{BC}=0.2, \\ AB \perp OC, AB=56.$$

Вариант 12

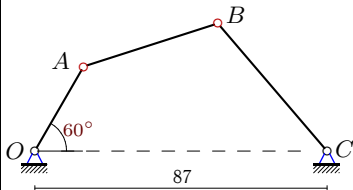
K18.



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

Вариант 13

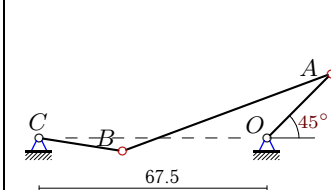
K18.



$$\omega_{OA}=5, \omega_{AB}=-3, \omega_{BC}=2, \\ OA=29.$$

Вариант 14

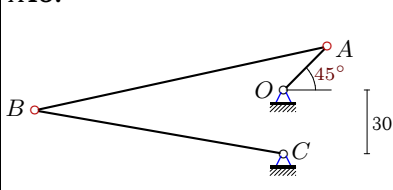
K18.



$$\omega_{OA}=1, \omega_{AB}=0.7, \omega_{BC}=-0.9, \\ OA=27.$$

Вариант 15

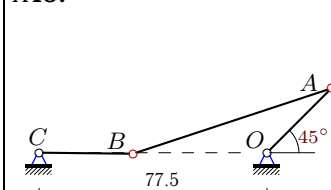
K18.



$$\omega_{OA}=2, \omega_{AB}=0.9, \omega_{BC}=0.7, \\ OA=29.$$

Вариант 16

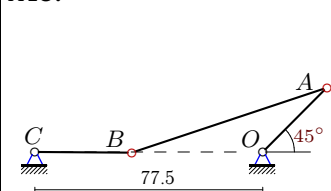
K18.



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

Вариант 17

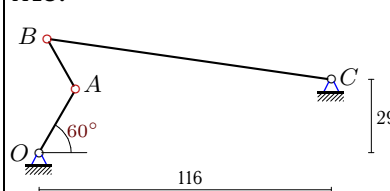
K18.



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

Вариант 18

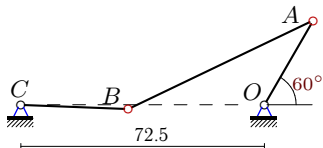
K18.



$$\omega_{OA}=-7, \omega_{AB}=11, \omega_{BC}=2, \\ OA=29.$$

Вариант 19

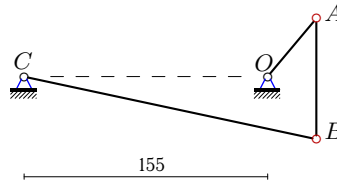
K18.



$$\omega_{OA} = -1.8, \omega_{AB} = -1.6, \omega_{BC} = 2, \\ OA = 29.$$

Вариант 20

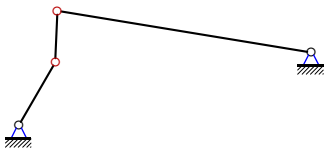
K18.



$$\omega_{OA} = 18, \omega_{AB} = 10, \omega_{BC} = 3, \\ AB \perp OC, AB = 77.$$

Вариант 21

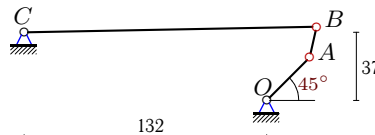
K18.



$$\omega_{OA} = -8, \omega_{AB} = 10, \omega_{BC} = 1,$$

Вариант 22

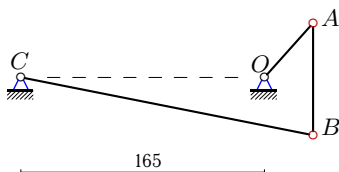
K18.



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

Вариант 23

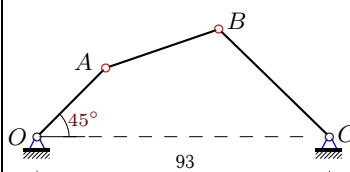
K18.



$$\omega_{OA} = 24, \omega_{AB} = 14, \omega_{BC} = 4, \\ AB \perp OC, AB = 76.$$

Вариант 24

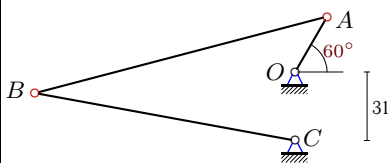
K18.



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

Вариант 25

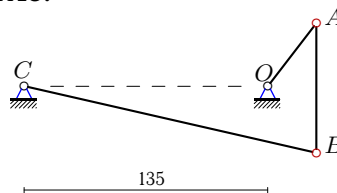
K18.



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

Вариант 26

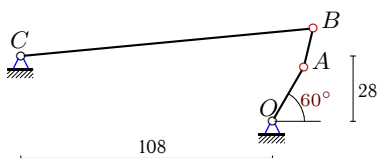
K18.



$$\omega_{OA} = 6, \omega_{AB} = 3, \omega_{BC} = 1, \\ AB \perp OC, AB = 72.$$

Вариант 27

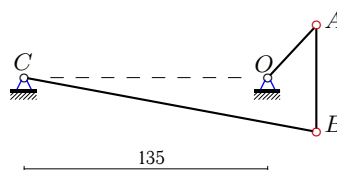
K18.



$$\omega_{OA} = 15, \omega_{AB} = -21, \omega_{BC} = 1, \\ OA = 27.$$

Вариант 28

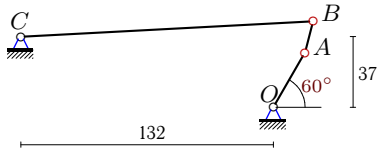
K18.



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

Вариант 29

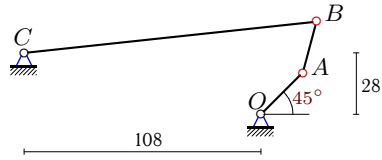
К18.



$$\omega_{OA}=67, \omega_{AB}=-114, \omega_{BC}=4, \\ OA=33.$$

Вариант 30

К18.



$$\omega_{OA}=1, \omega_{AB}=-0.8, \omega_{BC}=0.1, \\ OA=27.$$

Ответы

	<i>OA</i>	<i>AB</i>	<i>BC</i>
1	97.905	68.000	100.239
2	38.782	58.000	183.337
3	63.908	31.000	77.500
4	97.557	68.000	100.667
5	29.000	71.266	29.097
6	33.000	63.509	44.114
7	29.000	65.727	51.931
8	27.000	57.369	49.889
9	33.000	23.618	119.009
10	29.000	23.699	137.867
11	48.622	56.000	191.723
12	33.000	68.671	41.250
13	29.000	46.036	49.555
14	27.000	64.740	26.197
15	29.000	136.259	114.951
16	31.000	69.741	33.214
17	31.000	69.741	33.214
18	29.000	21.812	113.743
19	29.000	61.582	31.448
20	47.457	77.000	190.480
21	27.000	19.000	95.000
22	33.000	15.598	157.755
23	50.329	76.000	201.613
24	31.000	35.297	50.668
25	29.000	22.750	49.971
26	39.477	72.000	167.661
27	27.000	16.567	125.712
28	35.860	59.000	165.823
29	33.000	17.072	153.049
30	27.000	23.308	134.841