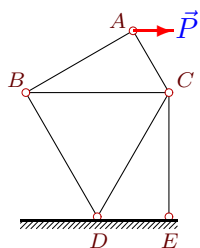


Плоская конструкция из 6 стержней

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.14.)

Задача S1.1.

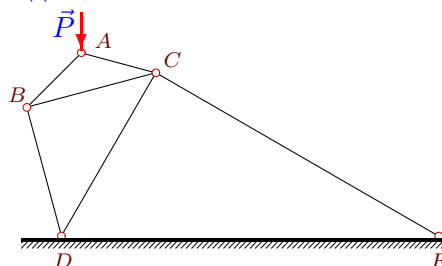
Либензон Вадим



$P=28$ кН,
 $\angle ACB=60^\circ$,
 $\angle ABC=30^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=90^\circ$.

Задача S1.2.

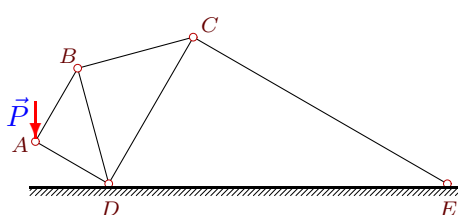
Петров Михаил



$P=21$ кН,
 $\angle ACB=30^\circ$,
 $\angle ABC=30^\circ$,
 $\angle BDC=45^\circ$,
 $\angle BCD=45^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=30^\circ$.

Задача S1.3.

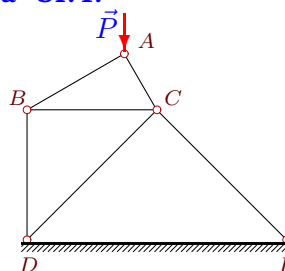
Пономарёв Роман



$P=3$ кН,
 $\angle ABD=45^\circ$,
 $\angle ADB=45^\circ$,
 $\angle BDC=45^\circ$,
 $\angle BCD=45^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=30^\circ$.

Задача S1.4.

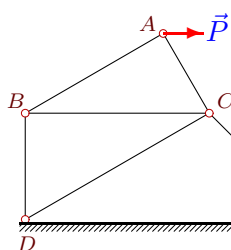
Рукотов Владимир



$P=24$ кН,
 $\angle ACB=60^\circ$,
 $\angle ABC=30^\circ$,
 $\angle BDC=45^\circ$,
 $\angle BCD=45^\circ$,
 $\angle CDE=45^\circ$,
 $\angle CED=45^\circ$.

Задача S1.5.

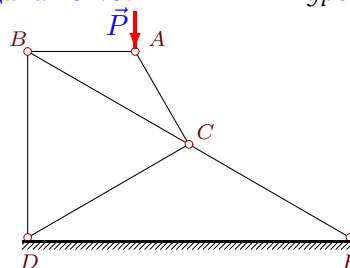
Туманов Николай



$P=13$ кН,
 $\angle ACB=60^\circ$,
 $\angle ABC=30^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=30^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=45^\circ$.

Задача S1.6.

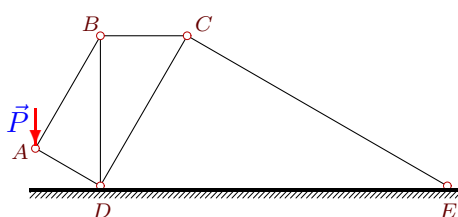
Мурзакаев Константин



$P=22$ кН,
 $\angle ACB=30^\circ$,
 $\angle ABC=30^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=30^\circ$.

Задача S1.7.

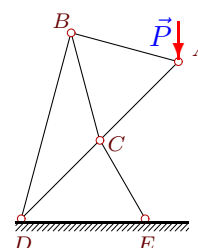
Самыгина Елизавета



$P=14$ кН,
 $\angle ABD=30^\circ$,
 $\angle ADB=60^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=30^\circ$.

Задача S1.8.

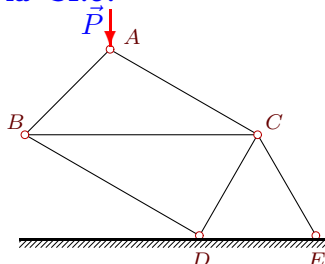
Склёмин Александр



$P=21$ кН,
 $\angle ACB=60^\circ$,
 $\angle ABC=60^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=120^\circ$,
 $\angle CDE=45^\circ$,
 $\angle CED=60^\circ$.

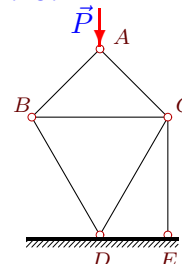
Задача S1.9.

Сахнова Анна



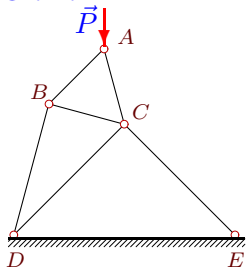
$P=16$ кН,
 $\angle ACB=30^\circ$,
 $\angle ABC=45^\circ$,
 $\angle BDC=90^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=60^\circ$.

Задача S1.10.



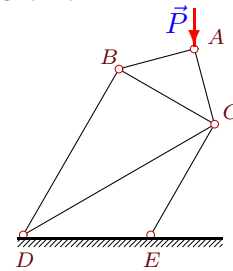
$P=7$ кН,
 $\angle ACB=45^\circ$,
 $\angle ABC=45^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=90^\circ$.

Задача S1.11.



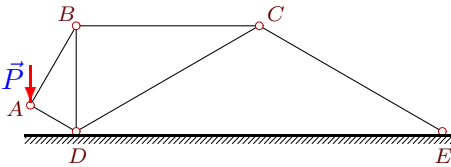
$P=18$ кН,
 $\angle ACB=60^\circ$,
 $\angle ABC=60^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=45^\circ$,
 $\angle CED=45^\circ$.

Задача S1.12.



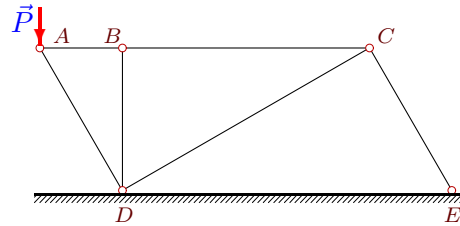
$P=9$ кН,
 $\angle ACB=45^\circ$,
 $\angle ABC=45^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=120^\circ$.

Задача S1.13.



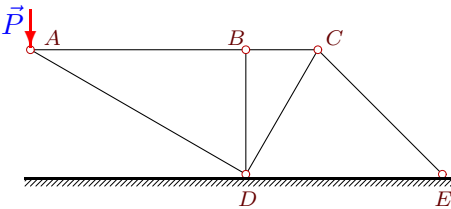
$P=29$ кН,
 $\angle ABD=30^\circ$,
 $\angle ADB=60^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=30^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=30^\circ$.

Задача S1.14.



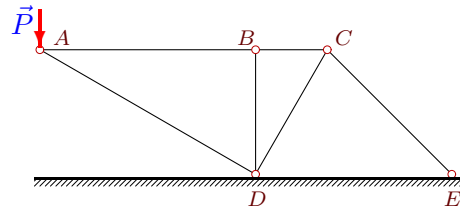
$P=5$ кН,
 $\angle ABD=90^\circ$,
 $\angle ADB=30^\circ$,
 $\angle BDC=60^\circ$,
 $\angle BCD=30^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=60^\circ$.

Задача S1.15.



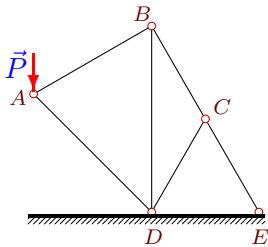
$P=5$ кН,
 $\angle ABD=90^\circ$,
 $\angle ADB=60^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=45^\circ$.

Задача S1.16.



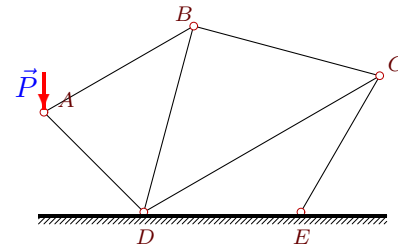
$P=19$ кН,
 $\angle ABD=90^\circ$,
 $\angle ADB=60^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=45^\circ$.

Задача S1.17.



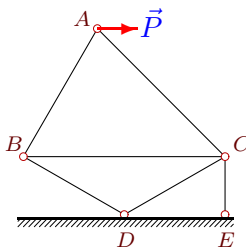
$P=4$ кН,
 $\angle ABD=60^\circ$,
 $\angle ADB=45^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=120^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=60^\circ$.

Задача S1.18.



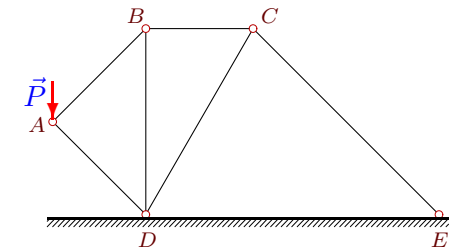
$P=19$ кН,
 $\angle ABD=45^\circ$,
 $\angle ADB=60^\circ$,
 $\angle BDC=45^\circ$,
 $\angle BCD=45^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=120^\circ$.

Задача S1.19.



$P=26$ кН,
 $\angle ACB=45^\circ$,
 $\angle ABC=60^\circ$,
 $\angle BDC=120^\circ$,
 $\angle BCD=30^\circ$,
 $\angle CDE=30^\circ$,
 $\angle CED=90^\circ$.

Задача S1.20.



$P=19$ кН,
 $\angle ABD=45^\circ$,
 $\angle ADB=45^\circ$,
 $\angle BDC=30^\circ$,
 $\angle BCD=60^\circ$,
 $\angle CDE=60^\circ$,
 $\angle CED=45^\circ$.

	S_{AB}	S_{AC}	S_{AD}	S_{BC}	S_{BD}	S_{CD}	S_{CE}	
1	24.249	-14.000	—	-28.000	14.000	70.000	-72.746	Либензон Вадим
2	-23.422	-17.146	—	20.284	-11.711	-9.905	-2.219	Петров Михаил
3	2.598	—	-1.500	1.837	-1.837	-1.299	1.299	Пономарёв Роман
4	-12.000	-20.785	—	10.392	-6.000	-12.728	-12.728	Рукотов Владимир
5	11.258	-6.500	—	-9.750	5.629	5.396	-11.776	Туманов Николай
6	-12.702	-25.403	—	14.667	-7.333	-14.667	-14.667	Мурзакаев Константин
7	12.124	—	-7.000	6.062	-10.500	-3.031	5.250	Самыгина Елизавета
8	17.146	-23.422	—	-34.293	29.698	-32.611	-30.746	Склёмин Александр
9	-14.345	-11.713	—	27.713	-20.287	-20.950	14.188	Сахнова Анна
10	-4.950	-4.950	—	5.521	-4.041	-4.041	0.000	
11	-5.379	-14.697	—	2.690	-4.659	-8.693	-10.399	
12	-2.329	-8.693	—	1.647	-1.647	9.000	-13.941	
13	25.115	—	-14.500	12.557	-21.750	-7.250	7.250	
14	2.887	—	-5.774	2.887	-0.000	-2.500	1.443	
15	8.660	—	-10.000	8.660	-0.000	-6.340	7.765	
16	32.909	—	-38.000	32.909	-0.000	-24.091	29.505	
17	2.928	—	-3.586	5.072	-5.856	0.000	5.072	
18	13.909	—	-17.035	9.835	-9.835	-19.000	13.909	
19	19.033	-23.311	—	-38.067	32.967	62.989	-47.978	
20	13.435	—	-13.435	9.500	-9.500	-6.954	8.517	

S1 серия ds