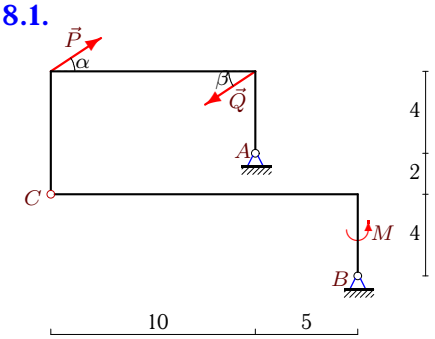
Составная прямоугольная рама

Рама состоит из двух частей, соединенных шарниром или скользящей заделкой. Размеры даны в метрах. Найти реакции опор.

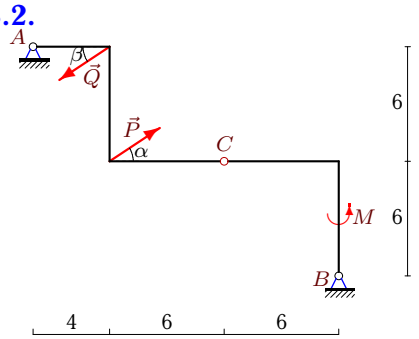
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.54.)

Задача 8.1. 8



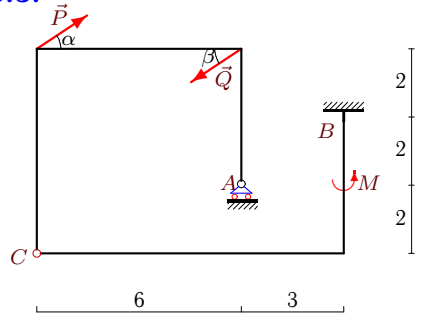
P=2кН, Q=9кН, α=45°, β=60°, M=8 кНм.

Задача 8.2. 8



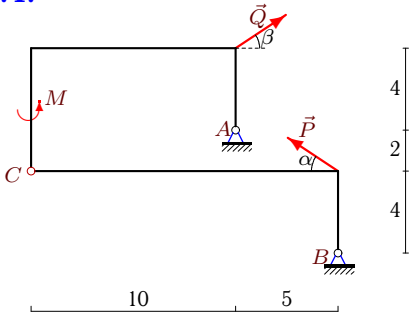
P=2кН, Q=1кН, α=30°, β=60°, M=3 кНм.

Задача 8.3. 8



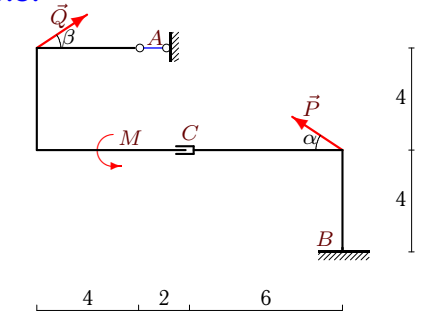
P=6кН, Q=6кН, α=30°, β=60°, M=7 кНм.

Задача 8.4. 8



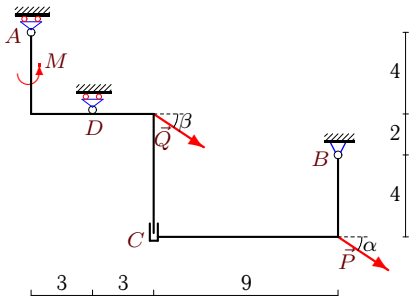
P=4кН, Q=1кН, α=60°, β=45°, M=3 кНм.

Задача 8.5. 8



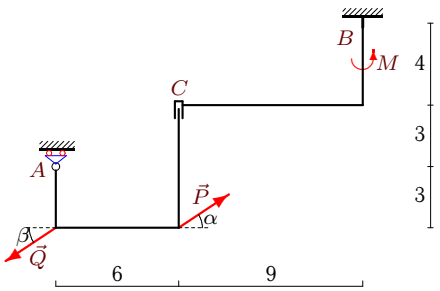
P=9кН, Q=6кН, α=45°, β=30°, M=3 кНм.

Задача 8.6. 8



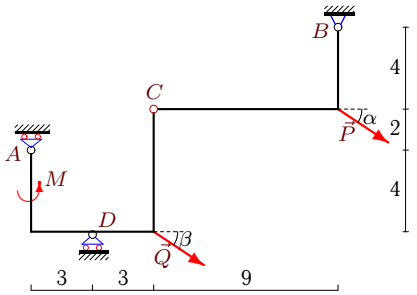
P=6кН, Q=6кН, α=45°, β=60°, M=8 кНм.

Задача 8.7. 8



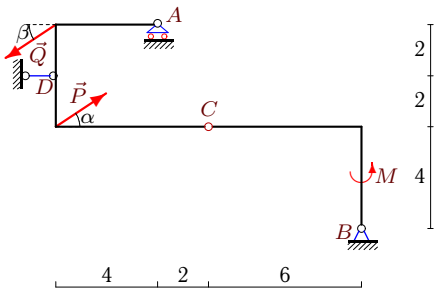
P=7кН, Q=4кН, α=45°, β=30°, M=8 кНм.

Задача 8.8. 8



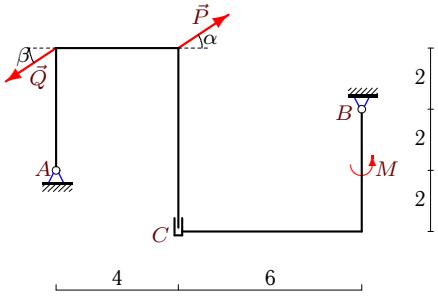
P=5кН, Q=2кН, α=30°, β=45°, M=8 кНм.

Задача 8.9.



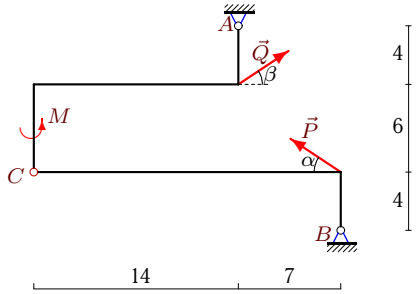
P=4кН, Q=3кН, α=45°, β=30°, M=3 кНм.

Задача 8.10.



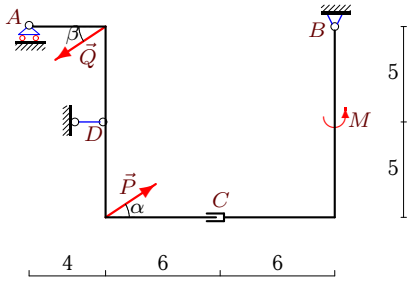
P=3кН, Q=2кН, α=30°, β=60°, M=2 кНм.

Задача 8.11.



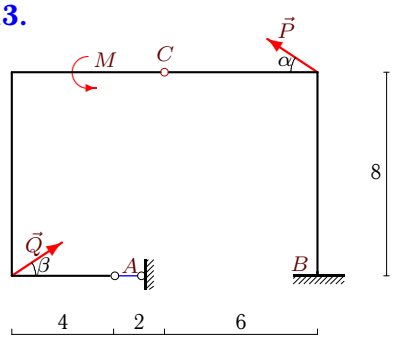
P=4кН, Q=2кН, α=45°, β=60°, M=8 кНм.

Задача 8.12.



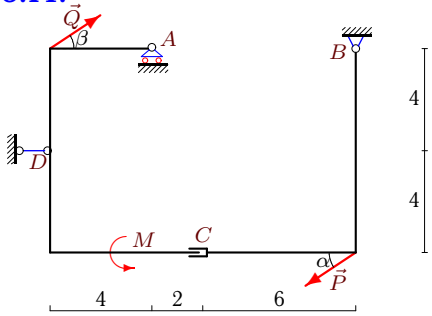
P=5кН, Q=8кН, α=60°, β=30°, M=3 кНм.

Задача 8.13.



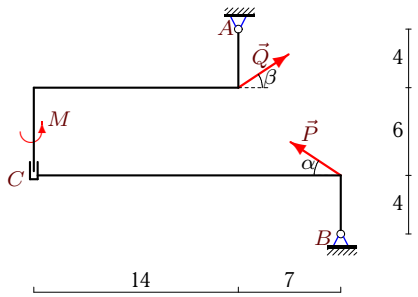
P=8кН, Q=6кН, α=30°, β=60°, M=1 кНм.

Задача 8.14.



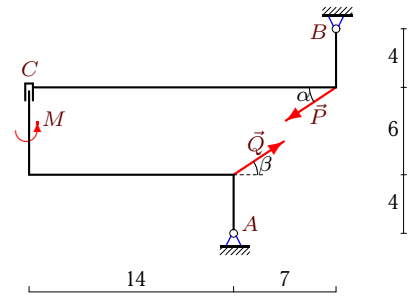
P=7кН, Q=1кН, α=45°, β=30°, M=9 кНм.

Задача 8.15.



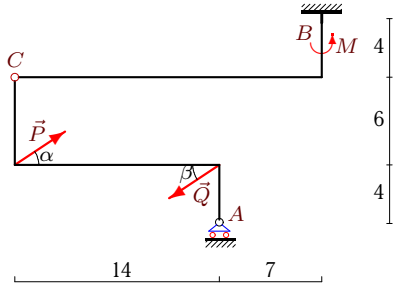
P=5кН, Q=2кН, α=45°, β=30°, M=1 кНм.

Задача 8.16.



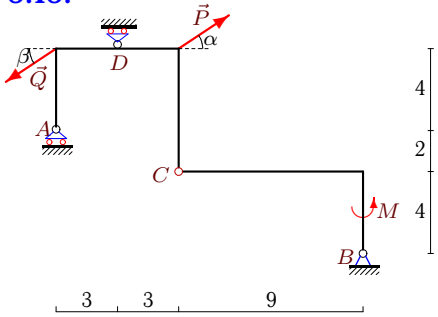
P=5кН, Q=7кН, α=60°, β=30°, M=8 кНм.

Задача 8.17.



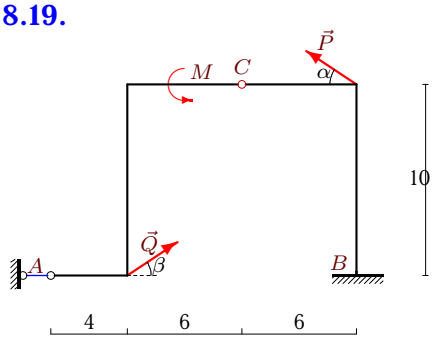
P=6кН, Q=4кН, α=60°, β=45°, M=6 кНм.

Задача 8.18.



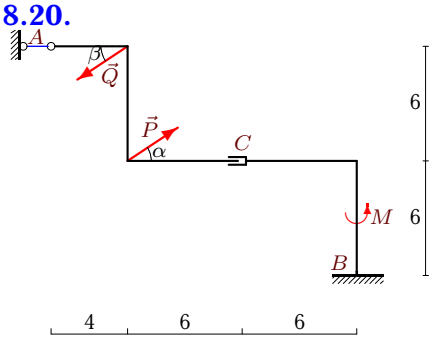
P=4кН, Q=7кН, α=60°, β=30°, M=3 кНм.

Задача 8.19.



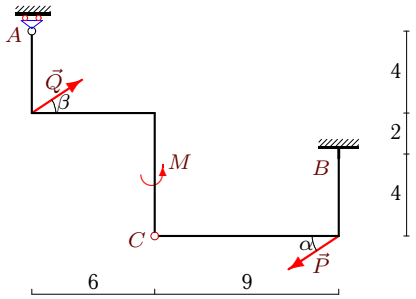
P=8кН, Q=5кН, α=45°, β=60°, M=8 кНм.

Задача 8.20.



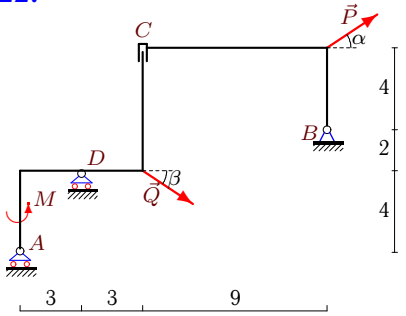
P=7кН, Q=9кН, α=60°, β=30°, M=9 кНм.

Задача 8.21.



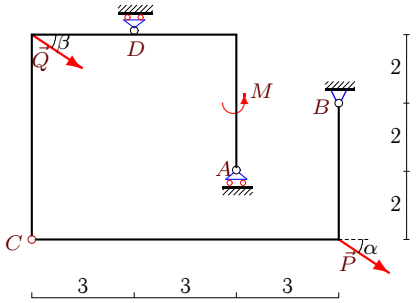
P=8кН, Q=6кН, α=45°, β=30°, M=1 кНм.

Задача 8.22.



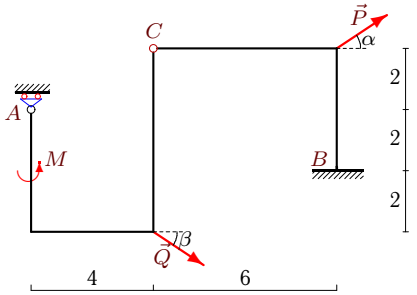
P=6кН, Q=5кН, α=60°, β=30°, M=6 кНм.

Задача 8.23.



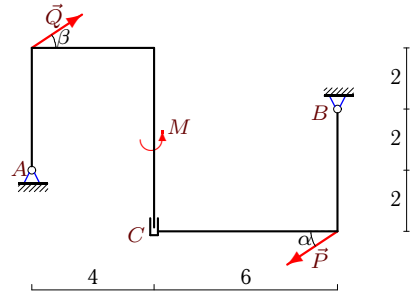
P=5кН, Q=4кН, α=30°, β=45°, M=5 кНм.

Задача 8.24.



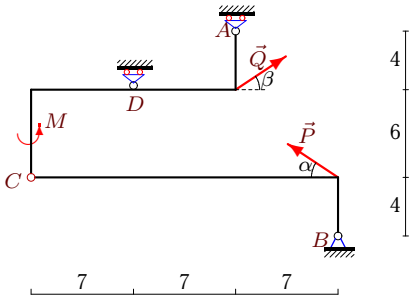
P=7кН, Q=1кН, α=45°, β=30°, M=4 кНм.

Задача 8.25.



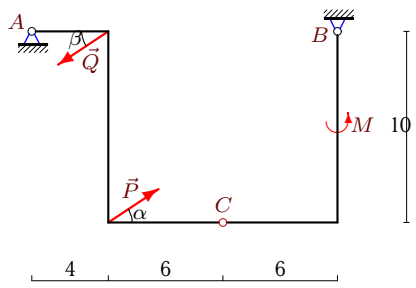
P=5кН, Q=9кН, α=45°, β=30°, M=8 кНм.

Задача 8.26.



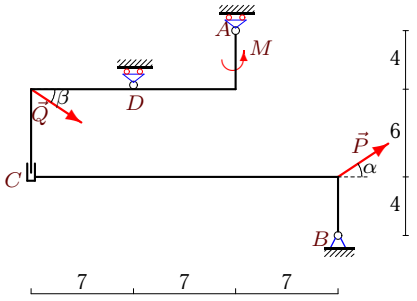
P=6кН, Q=2кН, α=60°, β=30°, M=1 кНм.

Задача 8.27.



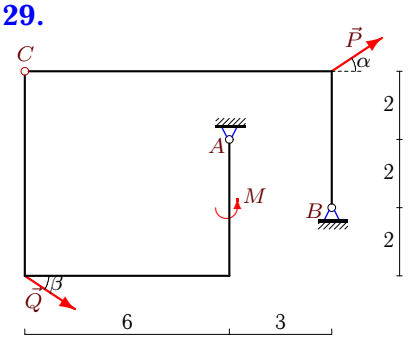
P=2кН, Q=4кН, α=45°, β=60°, M=5 кНм.

Задача 8.28.



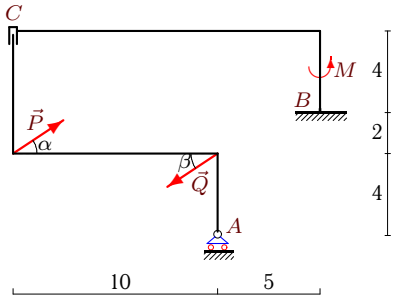
P=6кН, Q=4кН, α=45°, β=60°, M=8 кНм.

Задача 8.29.



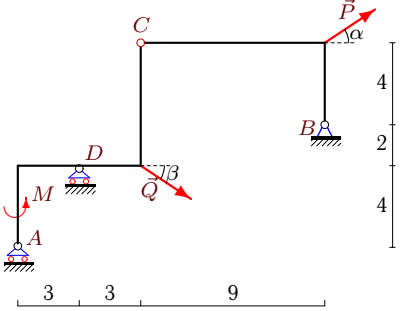
P=3кН, Q=7кН, α=30°, β=45°, M=7 кНм.

Задача 8.30.



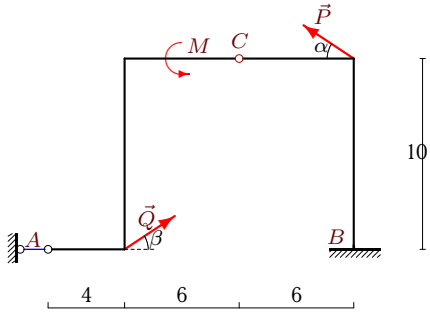
P=7кН, Q=3кН, α=60°, β=45°, M=5 кНм.

Задача 8.31.



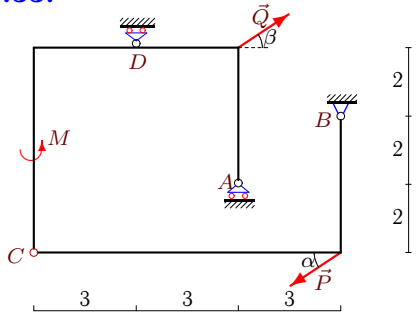
P=5кН, Q=3кН, α=30°, β=45°, M=9 кНм.

Задача 8.32.



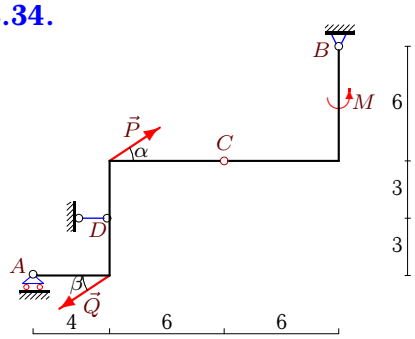
P=8кН, Q=5кН, α=60°, β=45°, M=8 кНм.

Задача 8.33.



P=6кН, Q=3кН, α=30°, β=45°, M=2 кНм.

Задача 8.34.



P=4кН, Q=8кН, α=60°, β=45°, M=5 кНм.

8.8

Составная прямоугольная рама

	X_A	Y_A	X_B	Y_B	X_D	Y_D	M_B
1	3.843	6.711	−0.757	−0.331	—	—	—
2	−2.714	1.848	1.482	−1.982	—	—	—
3	—	7.392	−2.196	−5.196	—	—	30.981
4	0.473	−0.488	0.820	−3.683	—	—	—
5	−5.196	—	6.364	−9.364	—	—	7.544
6	—	1.127	−7.243	4.243	—	4.069	—
7	—	−2.950	−1.486	0.000	—	—	−52.555
8	—	1.528	−5.744	−0.053	—	2.439	—
9	—	−5.368	−6.809	4.039	6.579	—	—
10	−2.402	0.232	0.804	0.000	—	—	—
11	0.543	−1.487	1.286	−3.073	—	—	—
12	—	2.886	0.000	−3.216	4.428	—	—
13	0.772	—	3.156	−9.196	—	—	5.928
14	—	−5.008	4.950	9.458	−0.866	—	—
15	−0.156	−1.000	1.959	−3.536	—	—	—
16	−4.187	−3.500	0.625	4.330	—	—	—
17	—	2.755	−0.172	−5.123	—	—	100.889
18	—	12.950	4.062	−2.139	—	−10.775	—
19	−0.702	—	3.859	−9.987	—	—	−12.607
20	4.294	—	0.000	−1.562	—	—	−11.254
21	—	−8.029	0.461	10.686	—	—	−43.423
22	—	−1.613	−7.330	−5.196	—	4.113	—
23	—	−2.020	−7.159	−0.682	—	8.030	—
24	—	2.299	−5.816	−6.749	—	—	34.057
25	10.865	−4.500	−15.124	3.536	—	—	—
26	—	0.100	1.268	−5.438	—	−0.859	—
27	0.496	2.734	0.090	−0.684	—	—	—
28	—	0.675	−6.243	−4.243	—	2.790	—
29	69.404	−29.251	−76.952	32.701	—	—	—
30	—	−3.941	−1.379	0.000	—	—	52.864
31	—	7.989	−6.451	0.367	—	−8.735	—
32	−2.214	—	2.679	−10.464	—	—	−5.574
33	—	2.821	3.075	4.367	—	−6.309	—
34	—	−2.699	5.725	4.892	−2.068	—	—