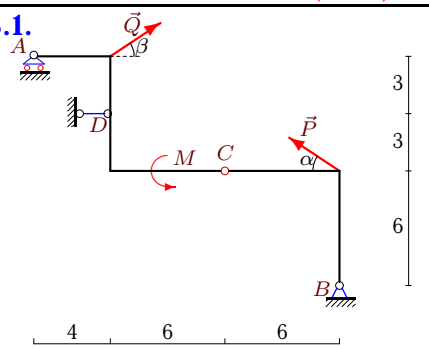
Составная прямоугольная рама

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

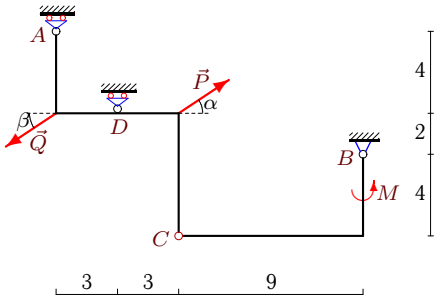
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.54.)

Задача 8.1. 9



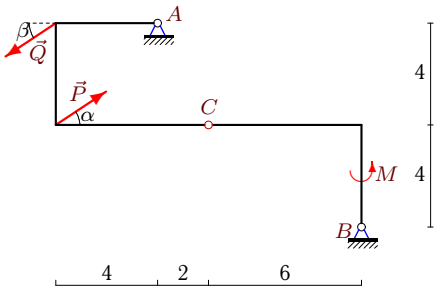
P=6кН, Q=2кН, α=60°, β=30°, M=4 кНм.

Задача 8.2. 9



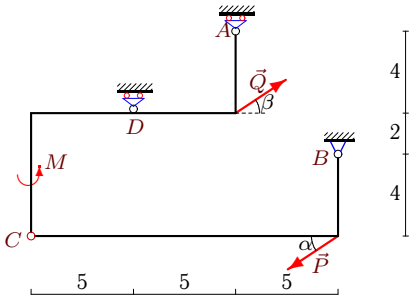
P=4кН, Q=2кН, α=45°, β=60°, M=5 кНм.

Задача 8.3. 9



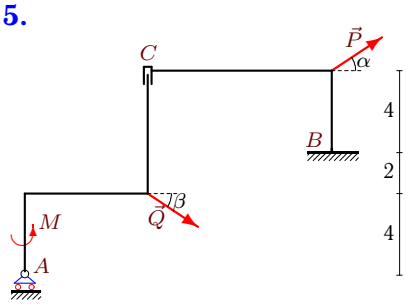
P=2кН, Q=6кН, α=45°, β=30°, M=6 кНм.

Задача 8.4. 9



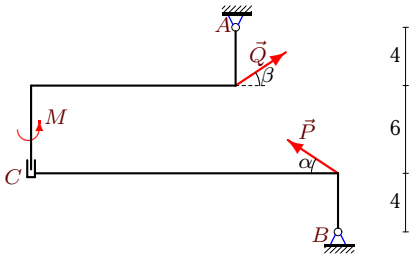
P=6кН, Q=4кН, α=60°, β=45°, M=6 кНм.

Задача 8.5. 9



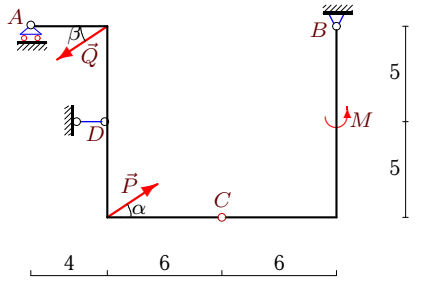
P=8кН, Q=4кН, α=45°, β=60°, M=7 кНм.

Задача 8.6. 9



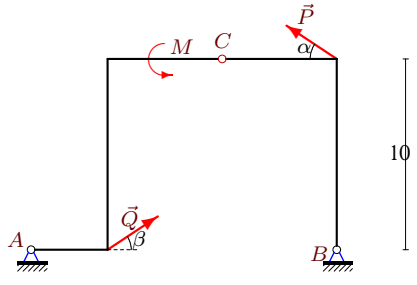
P=5кН, Q=7кН, α=60°, β=45°, M=9 кНм.

Задача 8.7. 9



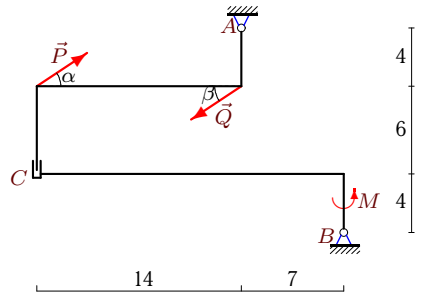
P=4кН, Q=8кН, α=45°, β=30°, M=1 кНм.

Задача 8.8. 9



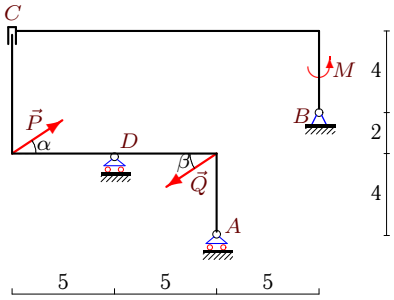
P=4кН, Q=4кН, α=45°, β=30°, M=2 кНм.

Задача 8.9.



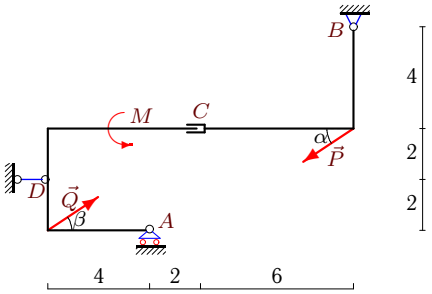
P=3кН, Q=2кН, α=60°, β=30°, M=6 кНм.

Задача 8.10.



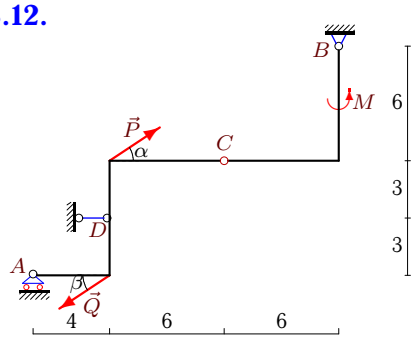
P=5кН, Q=2кН, α=30°, β=60°, M=9 кНм.

Задача 8.11.



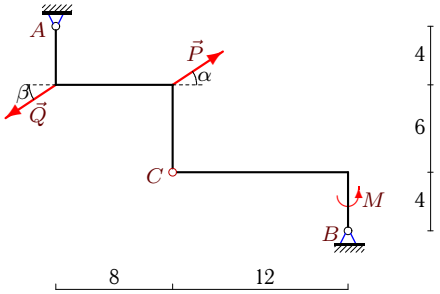
P=7кН, Q=6кН, α=45°, β=30°, M=6 кНм.

Задача 8.12.



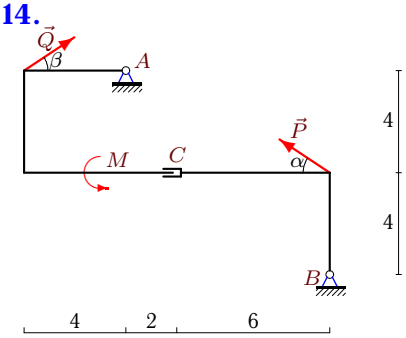
P=4кН, Q=2кН, α=60°, β=30°, M=8 кНм.

Задача 8.13.



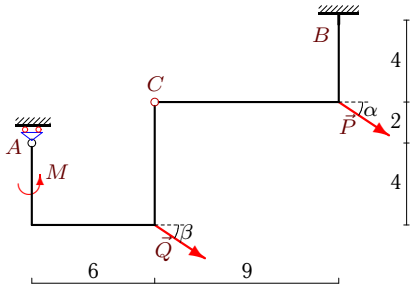
P=2кН, Q=2кН, α=45°, β=60°, M=1 кНм.

Задача 8.14.



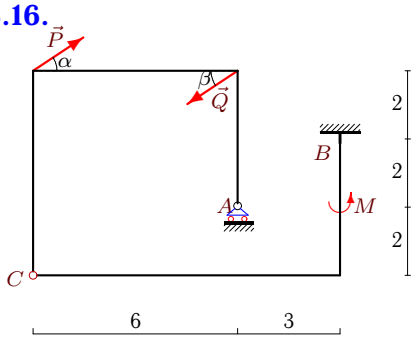
P=5кН, Q=7кН, α=45°, β=30°, M=8 кНм.

Задача 8.15.



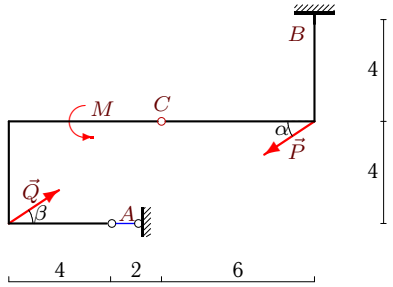
P=7кН, Q=3кН, α=60°, β=30°, M=7 кНм.

Задача 8.16.



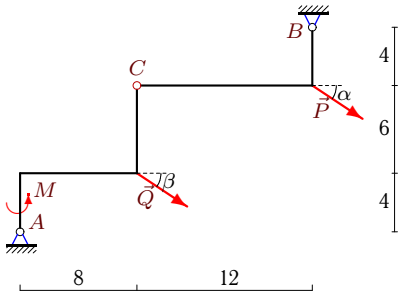
P=6кН, Q=6кН, α=30°, β=45°, M=8 кНм.

Задача 8.17.



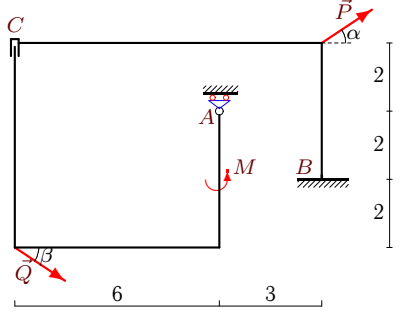
P=8кН, Q=3кН, α=45°, β=30°, M=6 кНм.

Задача 8.18.



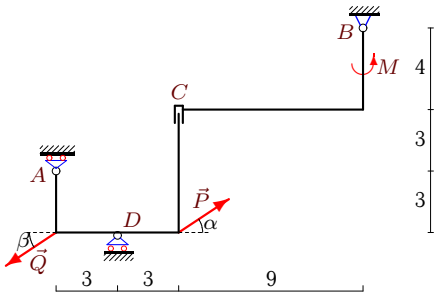
P=3кН, Q=2кН, α=45°, β=30°, M=1 кНм.

Задача 8.19. 9



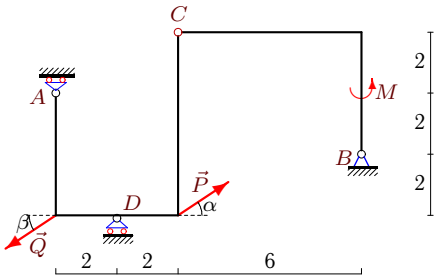
P=8кН, Q=5кН, α=30°, β=45°, M=8 кНм.

Задача 8.20. 9



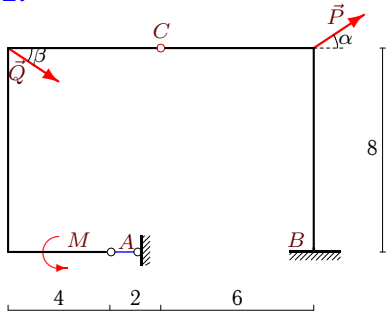
P=5кН, Q=8кН, α=60°, β=30°, M=9 кНм.

Задача 8.21. 9



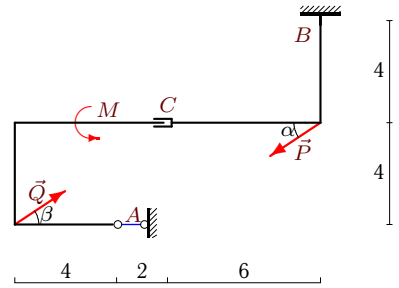
P=4кН, Q=3кН, α=45°, β=60°, M=9 кНм.

Задача 8.22. 9



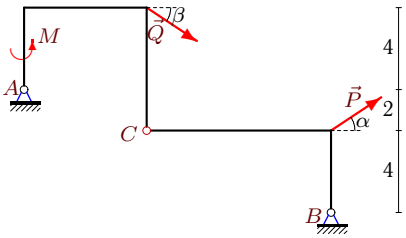
P=7кН, Q=4кН, α=30°, β=60°, M=4 кНм.

Задача 8.23. 9



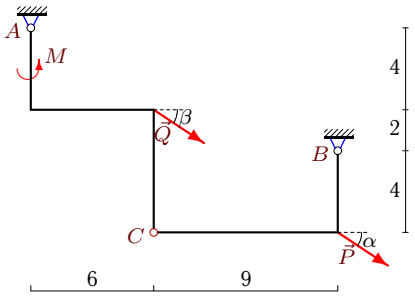
P=9кН, Q=5кН, α=60°, β=45°, M=1 кНм.

Задача 8.24. 9



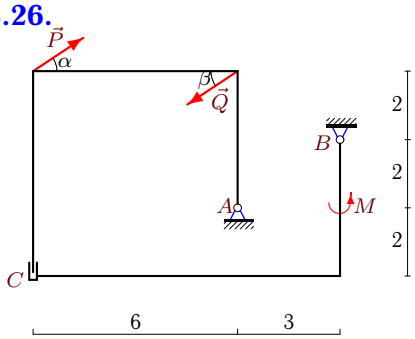
P=3кН, Q=6кН, α=45°, β=60°, M=1 кНм.

Задача 8.25. 9



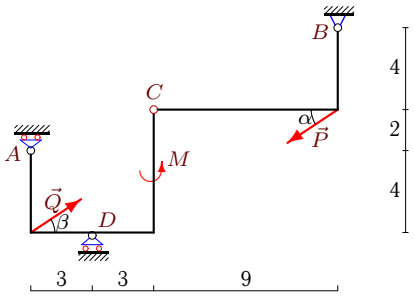
P=3кН, Q=9кН, α=45°, β=60°, M=5 кНм.

Задача 8.26. 9



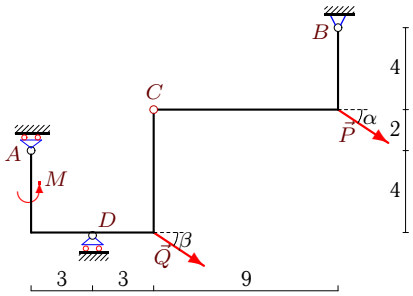
P=3кН, Q=2кН, α=60°, β=45°, M=4 кНм.

Задача 8.27. 9



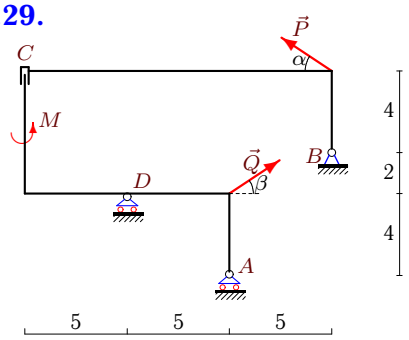
P=6кН, Q=8кН, α=30°, β=60°, M=5 кНм.

Задача 8.28. 9



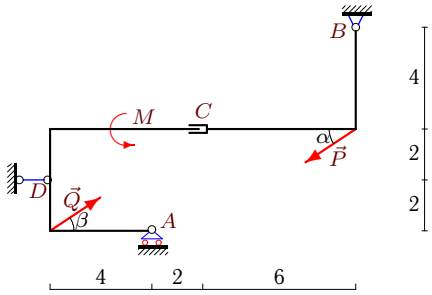
P=5кН, Q=8кН, α=60°, β=30°, M=8 кНм.

Задача 8.29.



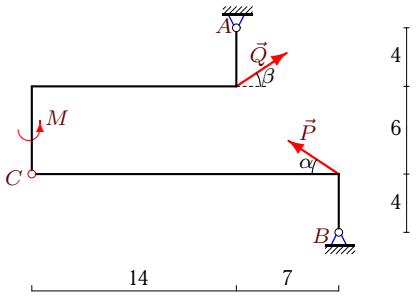
P=7кН, Q=3кН, α=30°, β=60°, M=9 кНм.

Задача 8.30.



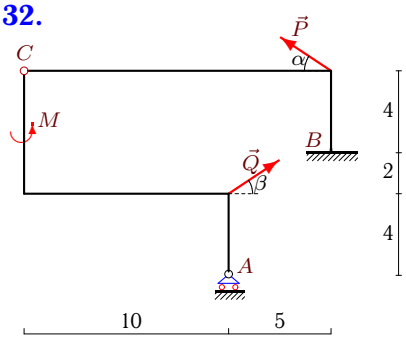
P=7кН, Q=4кН, α=45°, β=30°, M=1 кНм.

Задача 8.31.



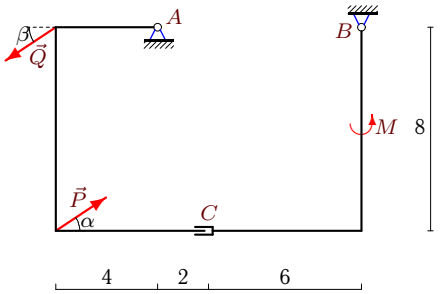
P=4кН, Q=8кН, α=60°, β=30°, M=5 кНм.

Задача 8.32.



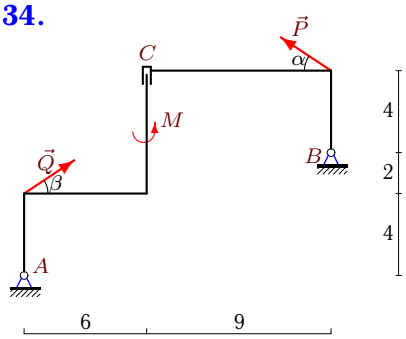
P=8кН, Q=3кН, α=45°, β=30°, M=3 кНм.

Задача 8.33.



P=3кН, Q=9кН, α=30°, β=60°, M=1 кНм.

Задача 8.34.



P=5кН, Q=2кН, α=60°, β=45°, M=8 кНм.

8.9

Составная прямоугольная рама

	X_A	Y_A	X_B	Y_B	X_D	Y_D	M_B
1	—	−1.885	−0.885	−4.311	2.153	—	—
2	—	−0.465	−1.828	−1.368	—	0.736	—
3	7.532	0.086	−3.750	1.500	—	—	—
4	—	−0.589	0.172	5.242	—	−2.286	—
5	—	3.464	−7.657	−5.657	—	—	32.412
6	−2.178	−4.950	−0.271	−4.330	—	—	—
7	—	4.602	−1.958	−3.431	6.058	—	—
8	−2.071	0.393	1.436	−5.221	—	—	—
9	−2.004	−1.598	2.236	0.000	—	—	—
10	—	1.100	−3.330	0.000	—	−1.868	—
11	—	−4.926	4.950	6.876	−5.196	—	—
12	—	−3.227	2.096	0.763	−2.364	—	—
13	1.264	−0.158	−1.678	0.476	—	—	—
14	−6.062	−2.482	3.536	−4.553	—	—	—
15	—	3.765	−6.098	3.797	—	—	−4.010
16	—	5.196	−0.954	−3.954	—	—	23.768
17	−1.848	—	4.907	4.157	—	—	28.627
18	0.939	2.597	−4.792	0.524	—	—	—
19	—	3.536	−10.464	−4.000	—	—	−8.571
20	—	−3.431	4.428	0.000	—	3.100	—
21	—	8.797	−1.328	−0.614	—	−8.413	—
22	−3.098	—	−4.964	−0.036	—	—	18.928
23	−3.536	—	4.500	4.259	—	—	59.426
24	51.780	−20.093	−56.901	23.168	—	—	—
25	−6.823	7.705	0.201	2.211	—	—	—
26	5.880	−1.184	−5.966	0.000	—	—	—
27	—	3.270	1.196	3.532	—	−10.730	—
28	—	8.333	−9.428	0.140	—	−0.142	—
29	—	−9.848	4.562	−3.500	—	7.250	—
30	—	−4.484	4.950	7.434	−3.464	—	—
31	−3.925	−4.191	−1.004	−3.273	—	—	—
32	—	−3.359	3.059	−3.798	—	—	−40.118
33	1.902	12.164	0.000	−5.870	—	—	—
34	−3.471	−1.414	4.557	−4.330	—	—	—