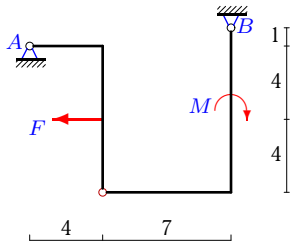
Простая составная конструкция

Определить реакции опор конструкции (в кН), состоящей из двух тел.

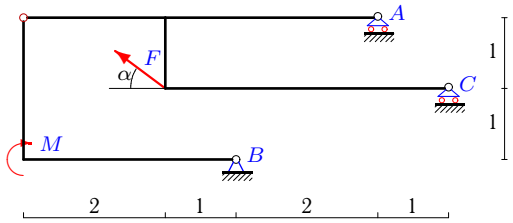
Кирсанов М.Н. Задачи по теоретической механике с решениями в **Maple** 11. – М.: ФИЗМАТЛИТ, 2010. — 264 с. (с.15)

Задача S24.1.



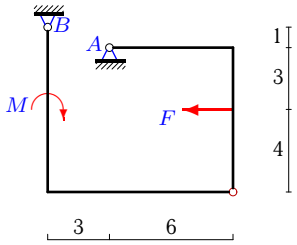
$F = 4$ кН, $M = 5$ кНм.

Задача S24.2.



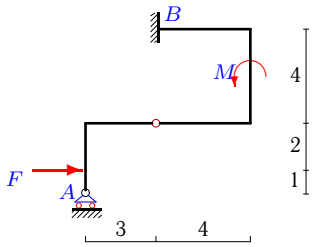
$F = 5$ кН, $M = 5$ кНм, $\cos\alpha = 0.8$.

Задача S24.3.



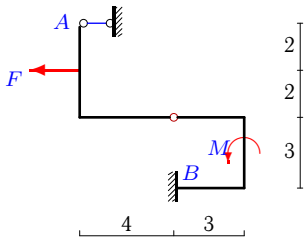
$F = 1$ кН, $M = 3$ кНм.

Задача S24.4.



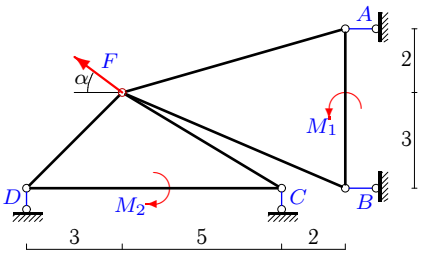
$F = 6$ кН, $M = 11$ кНм.

Задача S24.5.



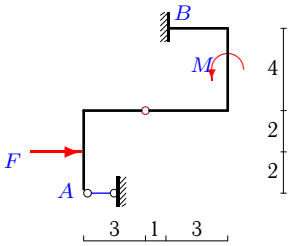
$F = 2$ кН, $M = 1$ кНм.

Задача S24.6.



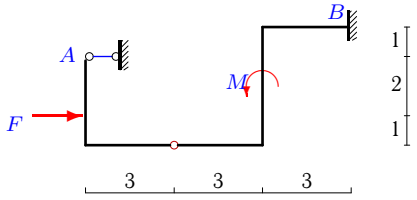
$F = 5$ кН, $M_1 = 18$ кНм, $M_2 = 25$ кНм, $\cos\alpha = 0.8$.

Задача S24.7.



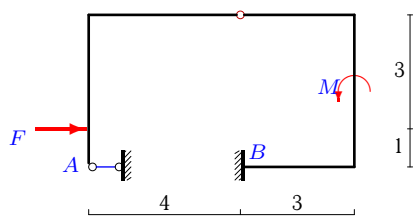
$F = 8$ кН, $M = 13$ кНм.

Задача S24.8.



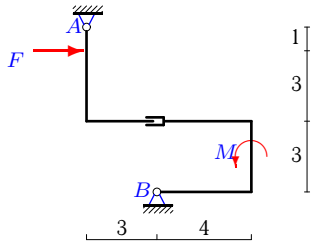
$F = 3$ кН, $M = 4$ кНм.

Задача S24.9.



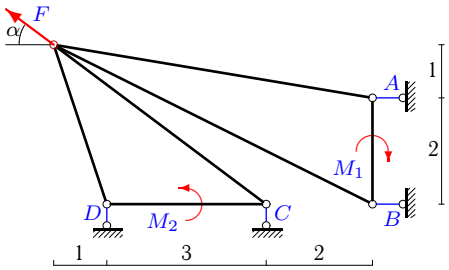
$F = 4$ кН, $M = 6$ кНм.

Задача S24.10.



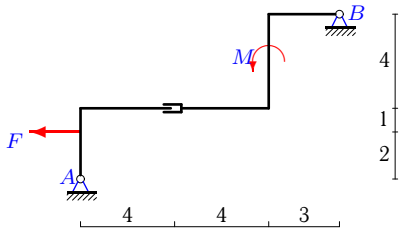
$F = 3$ кН, $M = 12$ кНм.

Задача S24.11.



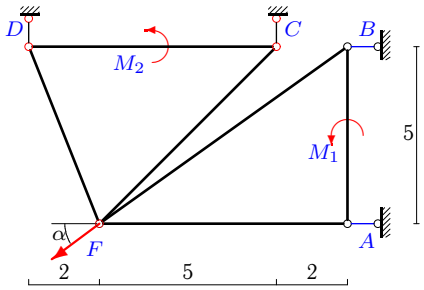
$F = 25$ кН, $M_1 = 24$ кНм, $M_2 = 48$ кНм, $\cos\alpha = 0.8$.

Задача S24.12.



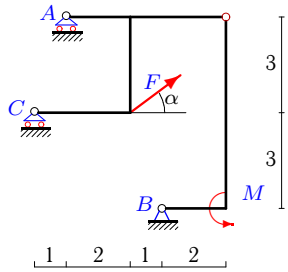
$F = 11$ кН, $M = 44$ кНм.

Задача S24.13.



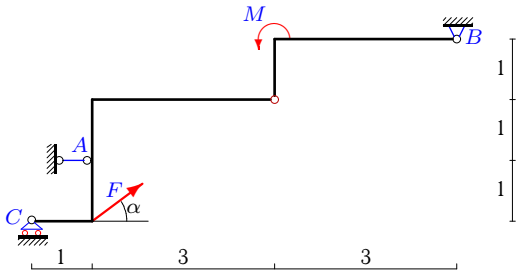
$F = 15$ кН, $M_1 = 10$ кНм, $M_2 = 4$ кНм, $\cos\alpha = 0.8$.

Задача S24.14.



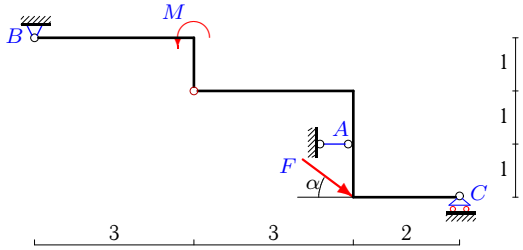
$F = 5$ кН, $M = 26$ кНм, $\cos\alpha = 0.8$.

Задача S24.15.



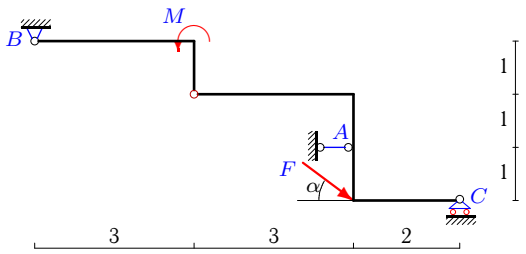
$F = 5$ кН, $M = 2$ кНм, $\cos\alpha = 0.8$.

Задача S24.16.



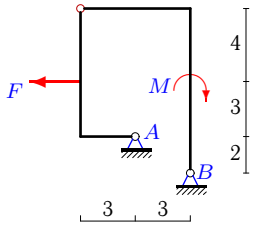
$F = 5$ кН, $M = 8$ кНм, $\cos\alpha = 0.8$.

Задача S24.17.



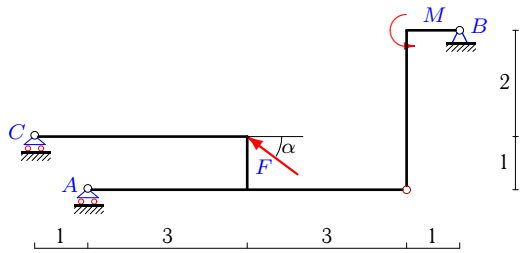
$F = 5$ кН, $M = 8$ кНм, $\cos\alpha = 0.8$.

Задача S24.18.



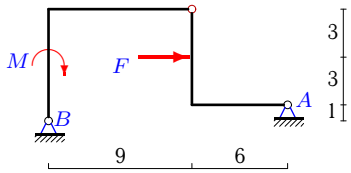
$F = 3$ кН, $M = 3$ кНм.

Задача S24.19.



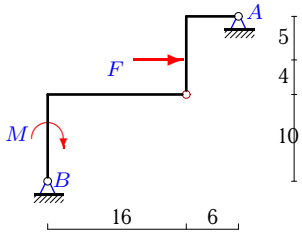
$F = 5$ кН, $M = 9$ кНм, $\cos\alpha = 0.8$.

Задача S24.20.



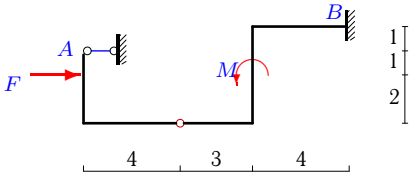
$F = 26$ кН, $M = 5$ кНм.

Задача S24.21.



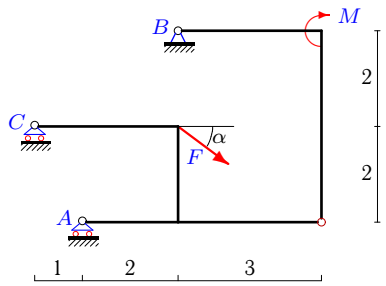
$F = 6$ кН, $M = 4$ кНм.

Задача S24.22.



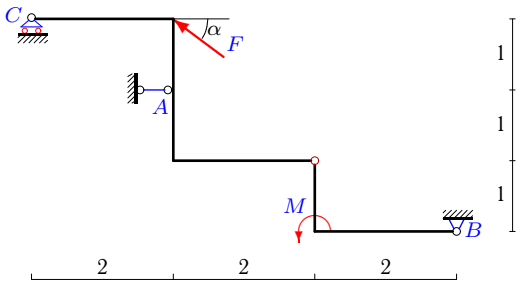
$F = 3$ кН, $M = 10$ кНм.

Задача S24.23.



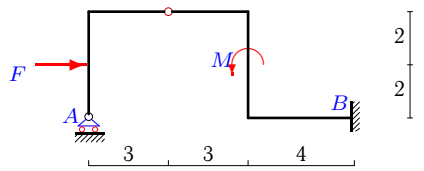
$F = 5$ кН, $M = 19$ кНм, $\cos\alpha = 0.8$.

Задача S24.24.



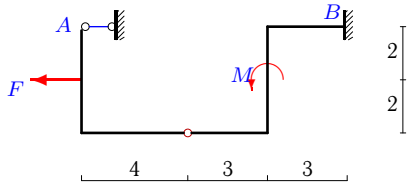
$F = 5$ кН, $M = 0$ кНм, $\cos\alpha = 0.8$.

Задача S24.25.



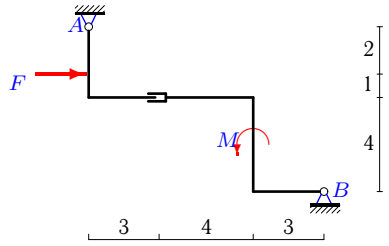
$F = 3$ кН, $M = 7$ кНм.

Задача S24.26.



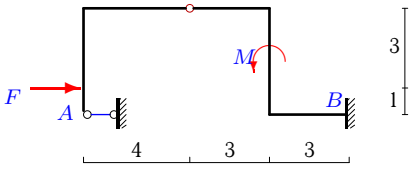
$F = 2$ кН, $M = 6$ кНм.

Задача S24.27.



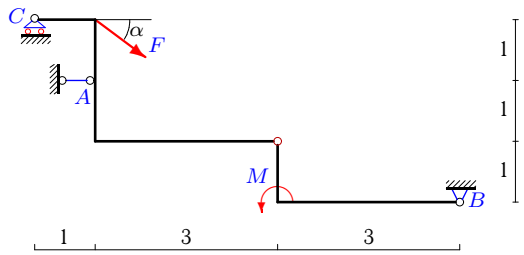
$F = 5$ кН, $M = 20$ кНм.

Задача S24.28.



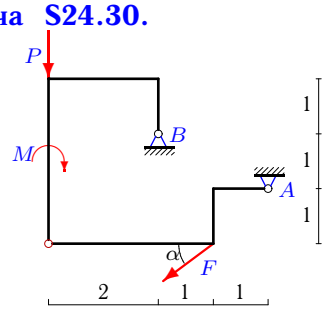
$F = 4$ кН, $M = 12$ кНм.

Задача S24.29.



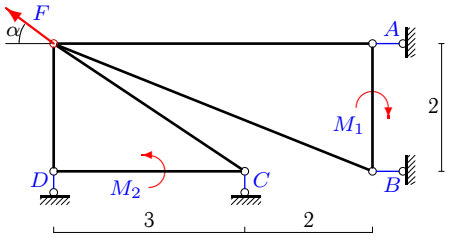
$F = 5$ кН, $M = 0$ кНм, $\cos\alpha = 0.8$.

Задача S24.30.



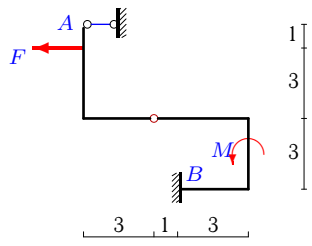
$P = 3$ кН, $F = 15$ кН, $M = 6$ кНм, $\cos\alpha = 0.8$.

Задача S24.31.



$F = 15$ кН, $M_1 = 6$ кНм, $M_2 = 15$ кНм, $\cos\alpha = 0.8$.

Задача S24.32.



$F = 4$ кН, $M = 5$ кНм.

S24 **Ответы.**
Простая составная конструкция 15.06.2012

№	X_A	Y_A	X_B	Y_B	Y_C	M_B	Y_D
1	3	−2	1	2	–	–	–
2	–	−10	4	−1	8	–	–
3	−2	3	3	−3	–	–	–
4	–	4	−6	−4	–	−35	–
5	1	–	1	0	–	−4	–
6	6	–	−2	–	2	–	−5
7	−4	–	−4	0	–	−29	–
8	−1	–	−2	0	–	−12	–
9	−3	–	−1	0	–	−2	–
10	−3	5	0	−5	–	–	–
11	18	–	2	–	−11	–	−4
12	11	6	0	−6	–	–	–
13	10	–	2	–	2	–	7
14	–	−27	−4	1	23	–	–
15	9	–	−13	−5	2	–	–
16	−9	–	−5	−1	2	–	–
17	−9	–	−5	−1	2	–	–
18	0	4	3	−4	–	–	–
19	–	−37	4	3	31	–	–
20	−19	6	−7	−6	–	–	–
21	0	4	−6	−4	–	–	–
22	−2	–	−1	0	–	−14	–
23	–	23	−4	−1	−19	–	–
24	−6	–	−10	5	2	–	–
25	–	2	−3	−2	–	19	–
26	1	–	1	0	–	−2	–
27	−5	3	0	−3	–	–	–
28	−3	–	−1	0	–	−8	–
29	17	–	21	−7	−4	–	–
30	13	10	−1	2	–	–	–
31	9	–	3	–	−5	–	−4
32	3	–	1	0	–	−8	–

S24 файл o24s1H