

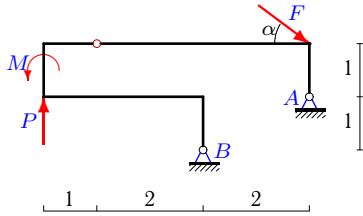
Простая составная конструкция

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.

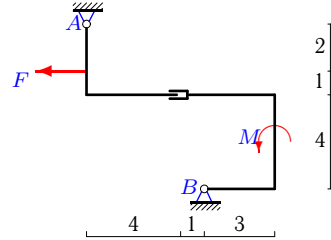
6



$P = 12 \text{ кН}, F = 15 \text{ кН}, M = 12 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.2.

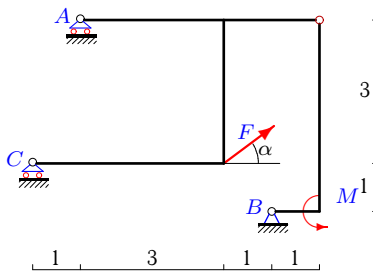
6



$F = 5 \text{ кН}, M = 5 \text{ кНм}.$

Задача S24.3.

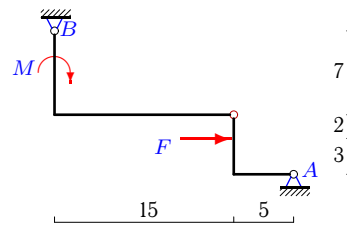
6



$F = 5 \text{ кН}, M = 15 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.4.

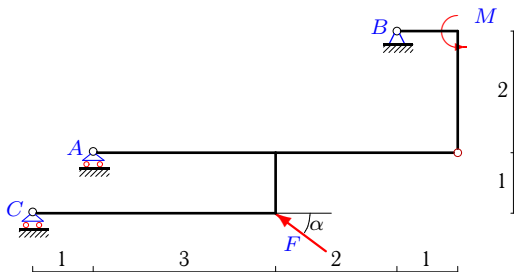
6



$F = 5 \text{ кН}, M = 5 \text{ кНм}.$

Задача S24.5.

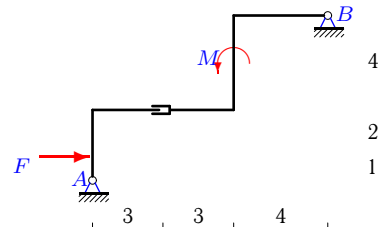
6



$F = 5 \text{ кН}, M = 11 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.6.

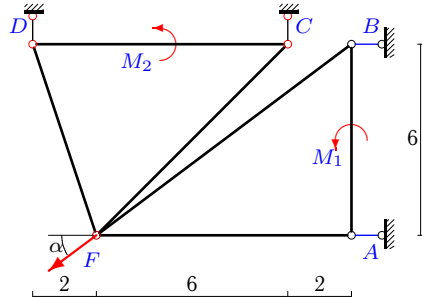
6



$F = 5 \text{ кН}, M = 15 \text{ кНм}.$

Задача S24.7.

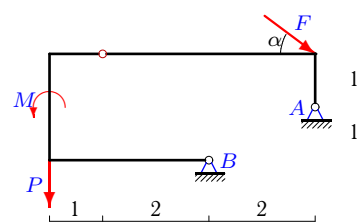
6



$F = 5 \text{ кН}, M_1 = 12 \text{ кНм}, M_2 = 54 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.8.

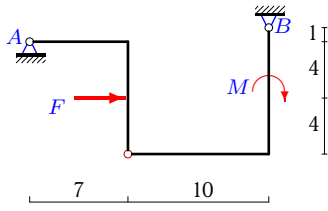
6



$P = 6 \text{ кН}, F = 15 \text{ кН}, M = 12 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.9.

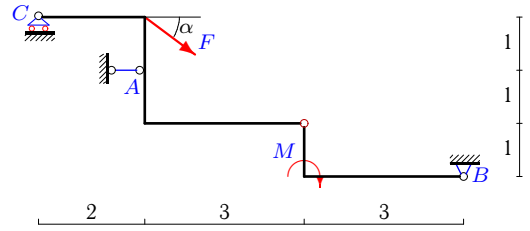
6



$F = 17 \text{ кН}, M = 5 \text{ кНм}.$

Задача S24.10.

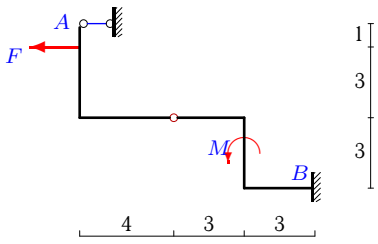
6



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

Задача S24.11.

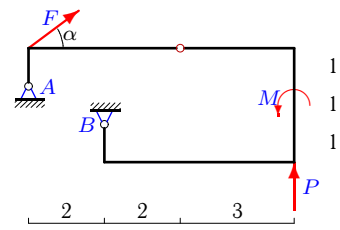
6



$F = 4 \text{ кН}, M = 4 \text{ кНм}.$

Задача S24.12.

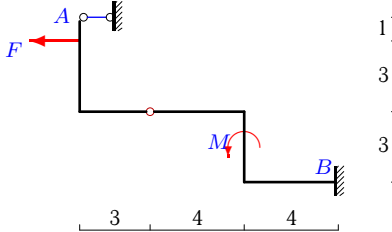
6



$P = 6 \text{ кН}, F = 15 \text{ кН}, M = 6 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.13.

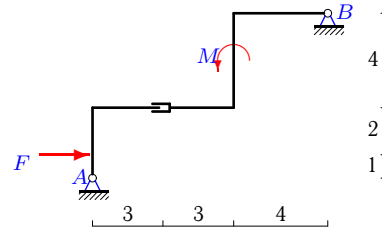
6



$F = 8 \text{ кН}, M = 7 \text{ кНм}.$

Задача S24.14.

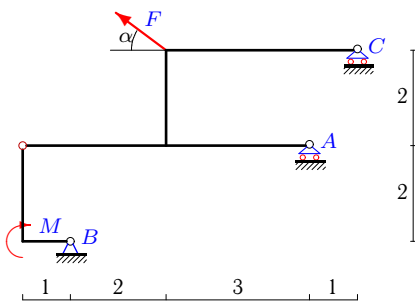
6



$F = 10 \text{ кН}, M = 20 \text{ кНм}.$

Задача S24.15.

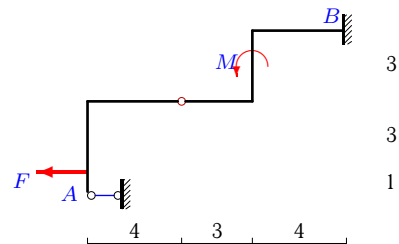
6



$F = 15 \text{ кН}, M = 22 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.16.

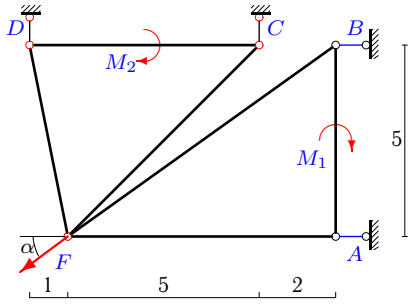
6



$F = 4 \text{ кН}, M = 3 \text{ кНм}.$

Задача S24.17.

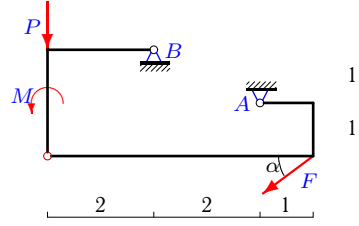
6



$F = 15 \text{ кН}, M_1 = 10 \text{ кНм}, M_2 = 9 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.18.

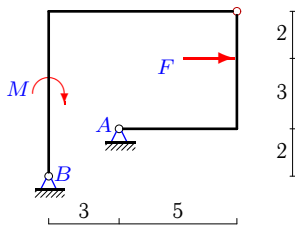
6



$P = 6 \text{ кН}, F = 30 \text{ кН}, M = 6 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.19.

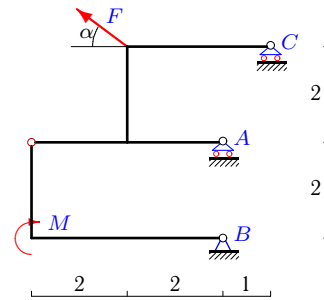
6



$F = 5 \text{ кН}, M = 5 \text{ кНм}.$

Задача S24.20.

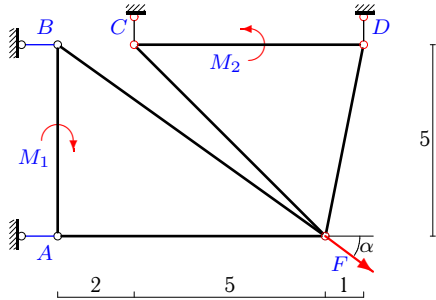
6



$F = 10 \text{ кН}, M = 28 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.21.

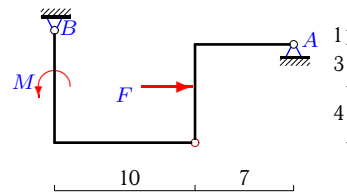
6



$F = 20 \text{ кН}, M_1 = 10 \text{ кНм}, M_2 = 18 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.22.

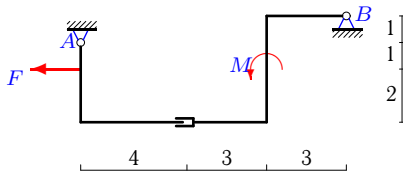
6



$F = 14 \text{ кН}, M = 6 \text{ кНм}.$

Задача S24.23.

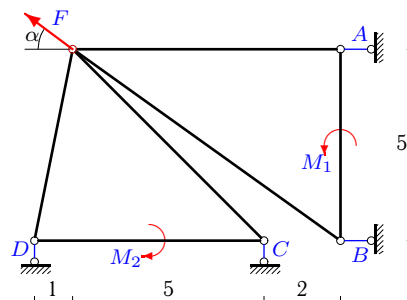
6



$F = 5 \text{ кН}, M = 15 \text{ кНм}.$

Задача S24.24.

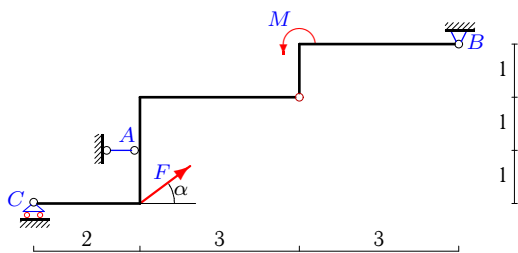
6



$F = 5 \text{ кН}, M_1 = 10 \text{ кНм}, M_2 = 27 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.25.

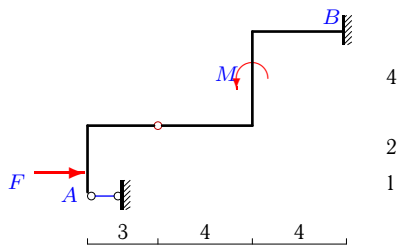
6



$F = 10 \text{ кН}, M = 6 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.26.

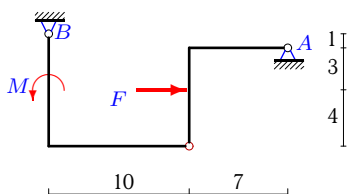
6



$F = 3 \text{ кН}, M = 11 \text{ кНм}.$

Задача S24.27.

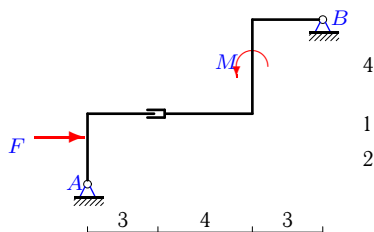
6



$F = 14 \text{ кН}, M = 6 \text{ кНм}.$

Задача S24.28.

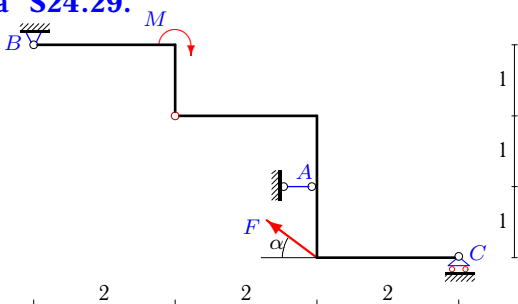
6



$F = 10 \text{ кН}, M = 10 \text{ кНм}.$

Задача S24.29.

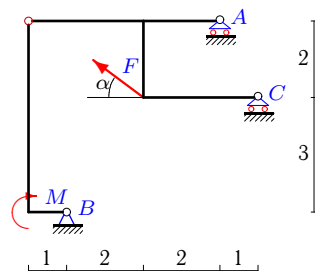
6



$F = 5 \text{ кН}, M = 12 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.30.

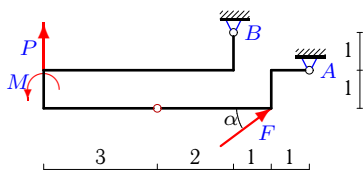
6



$F = 5 \text{ кН}, M = 21 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.31.

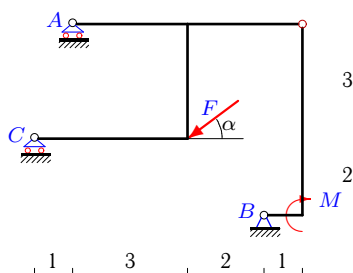
6



$P = 3 \text{ кН}, F = 15 \text{ кН}, M = 3 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.32.

6



$F = 5 \text{ кН}, M = 23 \text{ кНм}, \cos \alpha = 0.8.$

S24 Ответы.**Простая составная конструкция**

15.06.2012

№	X_A	Y_A	X_B	Y_B	Y_C	M_B	Y_D
1	-32	17	20	-20	-	-	-
2	5	-1	0	1	-	-	-
3	-	-18	-4	-1	16	-	-
4	0	-2	-5	2	-	-	-
5	-	-29	4	3	23	-	-
6	-5	1	0	-1	-	-	-
7	2	-	2	-	-6	-	9
8	4	8	-16	7	-	-	-
9	-12	4	-5	-4	-	-	-
10	6	-	10	-4	-1	-	-
11	3	-	1	0	-	-7	-
12	8	-7	-20	-8	-	-	-
13	6	-	2	0	-	-13	-
14	-10	1	0	-1	-	-	-
15	-	2	12	-2	-9	-	-
16	3	-	1	0	-	0	-
17	14	-	-2	-	3	-	6
18	26	29	-2	-5	-	-	-
19	24	26	-29	-26	-	-	-
20	-	-17	8	3	8	-	-
21	-14	-	-2	-	5	-	7
22	-11	-3	-3	3	-	-	-
23	5	1	0	-1	-	-	-
24	6	-	-2	-	4	-	-7
25	7	-	-15	-7	1	-	-
26	-2	-	-1	0	-	-15	-
27	-11	-3	-3	3	-	-	-
28	-10	-1	0	1	-	-	-
29	18	-	14	-1	-4	-	-
30	-	-23	4	1	19	-	-
31	-5	-8	-7	-4	-	-	-
32	-	45	4	-3	-39	-	-

S24 файл о24s6H