

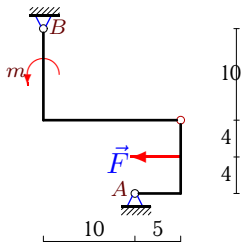
Простая составная конструкция

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

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.67.)

Задача 24.1.

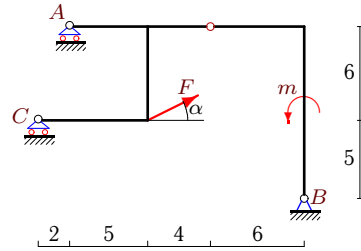
3



$$F = 2 \text{ кН}, m = 10 \text{ кНм.}$$

Задача 24.2.

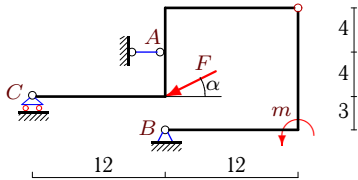
3



$$F = 15 \text{ кН}, m = 30 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.3.

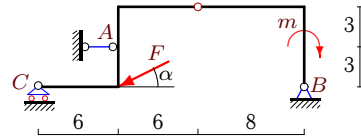
3



$$F = 45 \text{ кН}, m = 45 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.4.

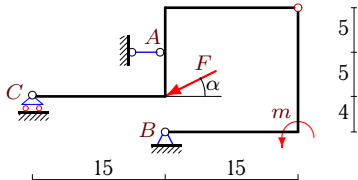
3



$$F = 160 \text{ кН}, m = 160 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.5.

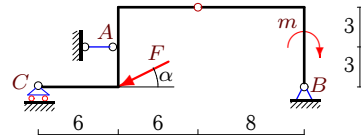
3



$$F = 115 \text{ кН}, m = 115 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.6.

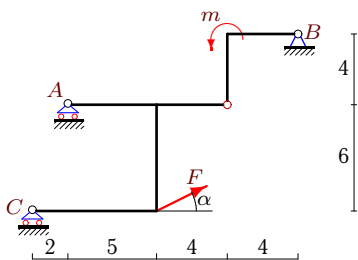
3



$$F = 160 \text{ кН}, m = 160 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.7.

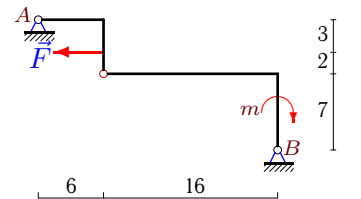
3



$$F = 20 \text{ кН}, m = 40 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.8.

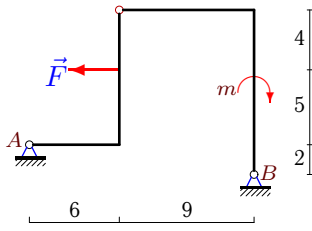
3



$$F = 3 \text{ кН}, m = 5 \text{ кНм.}$$

Задача 24.9.

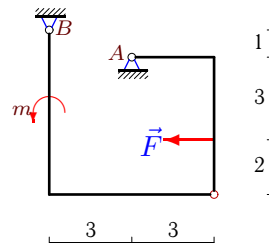
3



$F = 3 \text{ кН}, m = 2 \text{ кНМ.}$

Задача 24.10.

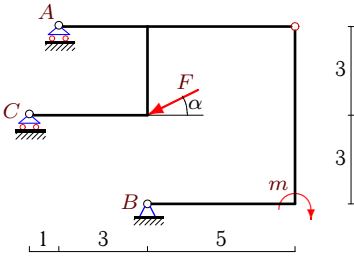
3



$F = 5 \text{ кН}, m = 6 \text{ кНМ.}$

Задача 24.11.

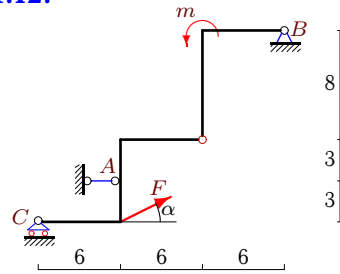
3



$F = 25 \text{ кН}, m = 25 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.12.

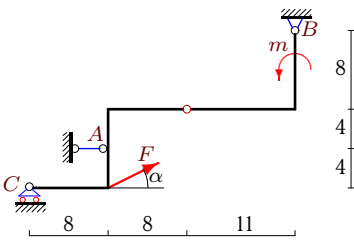
3



$F = 65 \text{ кН}, m = 130 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.13.

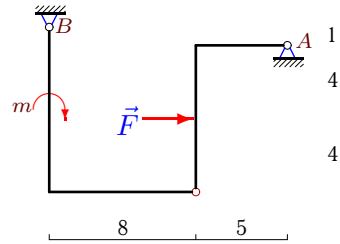
3



$F = 15 \text{ кН}, m = 30 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.14.

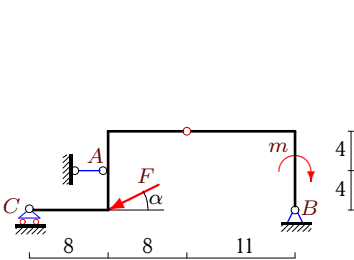
3



$F = 13 \text{ кН}, m = 4 \text{ кНМ.}$

Задача 24.15.

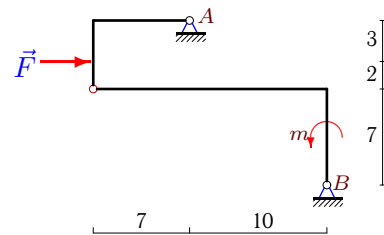
3



$F = 215 \text{ кН}, m = 215 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.16.

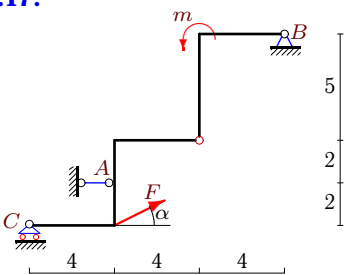
3



$F = 13 \text{ кН}, m = 1 \text{ кНМ.}$

Задача 24.17.

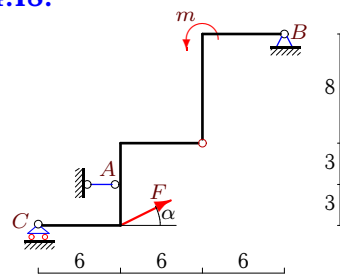
3



$F = 80 \text{ кН}, m = 80 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.18.

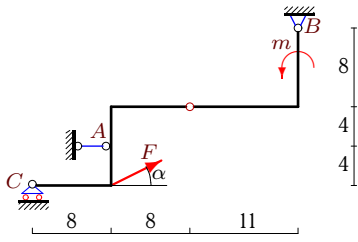
3



$F = 65 \text{ кН}, m = 130 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.19.

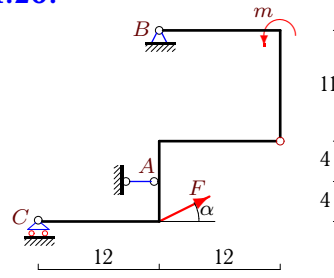
3



$F = 35 \text{ кН}, m = 35 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.20.

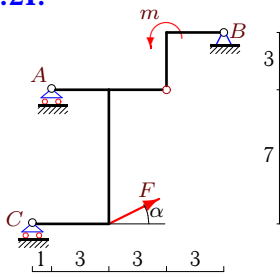
3



$F = 390 \text{ кН}, m = 780 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.21.

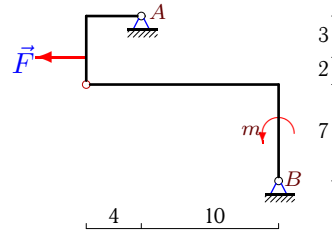
3



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

Задача 24.22.

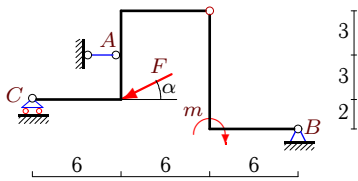
3



$F = 3 \text{ кН}, m = 7 \text{ кНм}.$

Задача 24.23.

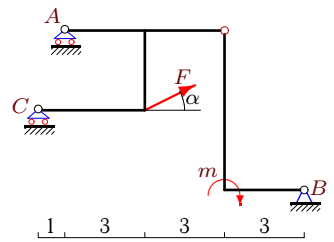
3



$F = 190 \text{ кН}, m = 190 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.24.

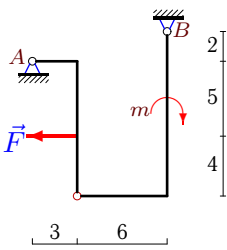
3



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

Задача 24.25.

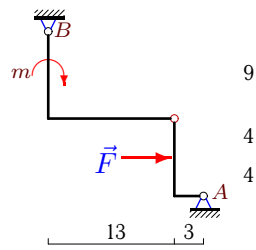
3



$F = 3 \text{ кН}, m = 1 \text{ кНм}.$

Задача 24.26.

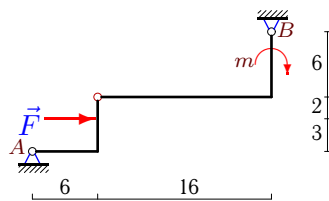
3



$F = 18 \text{ кН}, m = 4 \text{ кНм}.$

Задача 24.27.

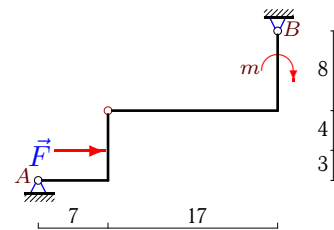
3



$F = 6 \text{ кН}, m = 4 \text{ кНм}.$

Задача 24.28.

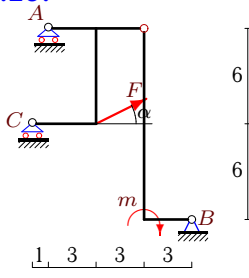
3



$F = 14 \text{ кН}, m = 3 \text{ кНм}.$

Задача 24.29.

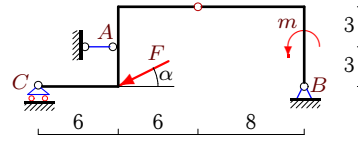
3



$F = 15 \text{ кН}, m = 15 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.30.

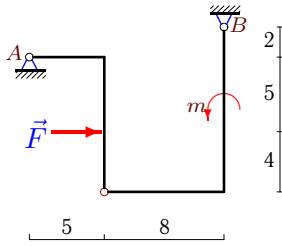
3



$F = 80 \text{ кН}, m = 160 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.31.

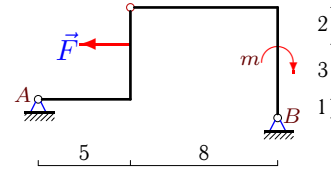
3



$F = 16 \text{ кН}, m = 1 \text{ кНМ}.$

Задача 24.32.

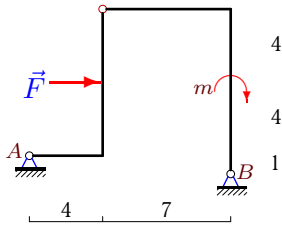
3



$F = 5 \text{ кН}, m = 4 \text{ кНМ}.$

Задача 24.33.

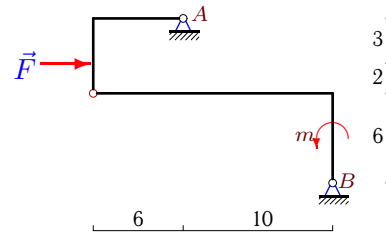
3



$F = 4 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.34.

3



$F = 7 \text{ кН}, m = 2 \text{ кНМ}.$

Простая составная конструкция

	X_A	Y_A	X_B	Y_B	Y_C	M_B
1	1	0	1	0	-	-
2	-	-161	-12	17	135	-
3	15	-	21	23	4	-
4	188	-	-60	65	31	-
5	37	-	55	59	10	-
6	188	-	-60	65	31	-
7	-	53	-16	-26	-39	-
8	0	1	3	-1	-	-
9	2	1	1	-1	-	-
10	-1	5	6	-5	-	-
11	-	-51	20	19	47	-
12	-42	-	-10	-35	-4	-
13	-2	-	-10	-10	1	-
14	-9	-4	-4	4	-	-
15	262	-	-90	85	44	-
16	-8	-2	-5	2	-	-
17	-44	-	-20	-45	-3	-
18	-42	-	-10	-35	-4	-
19	2	-	-30	-25	4	-
20	-528	-	216	-133	-101	-
21	-	-1	-12	-17	9	-
22	2	1	1	-1	-	-
23	192	-	-40	85	29	-
24	-	-275	-12	29	237	-
25	2	-2	1	2	-	-
26	-6	-8	-12	8	-	-
27	0	2	-6	-2	-	-
28	-3	5	-11	-5	-	-
29	-	-479	-12	53	417	-
30	124	-	-60	25	23	-
31	-11	7	-5	-7	-	-
32	3	1	2	-1	-	-
33	-3	-2	-1	2	-	-
34	-4	-1	-3	1	-	-