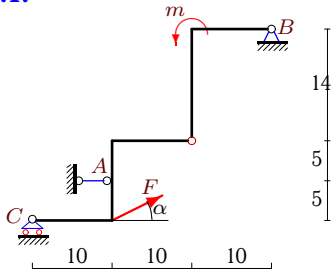


Простая составная конструкция

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

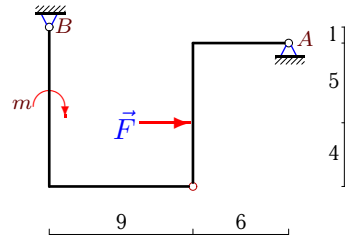
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.67.)

Задача 24.1.



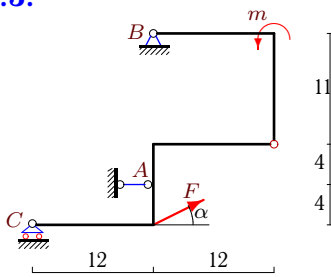
$F = 115 \text{ кН}, m = 230 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.2.



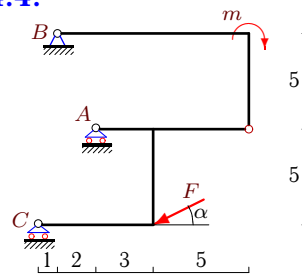
$F = 15 \text{ кН}, m = 5 \text{ кНм}.$

Задача 24.3.



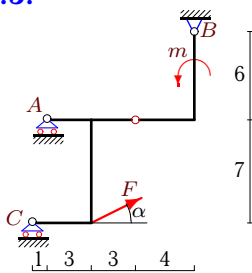
$F = 390 \text{ кН}, m = 780 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.4.



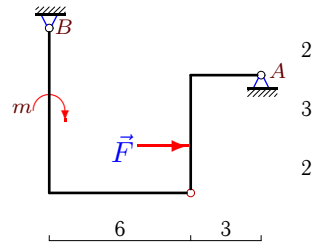
$F = 30 \text{ кН}, m = 30 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.5.



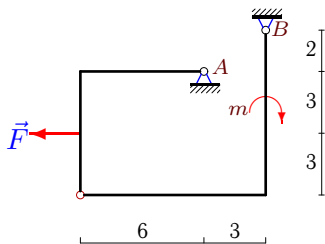
$F = 20 \text{ кН}, m = 20 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.6.



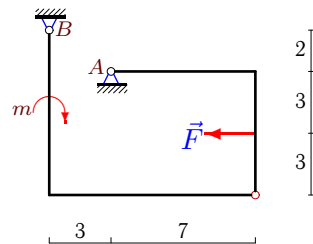
$F = 8 \text{ кН}, m = 3 \text{ кНм}.$

Задача 24.7.



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

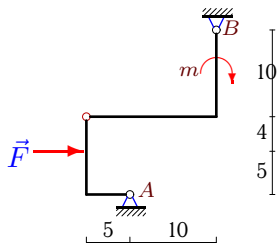
Задача 24.8.



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

Задача 24.9.

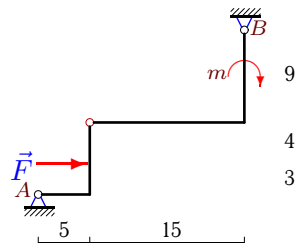
4



$F = 12 \text{ кН}, m = 5 \text{ кНМ.}$

Задача 24.10.

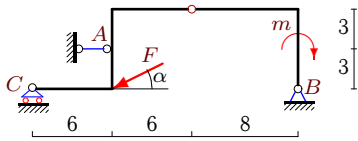
4



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

Задача 24.11.

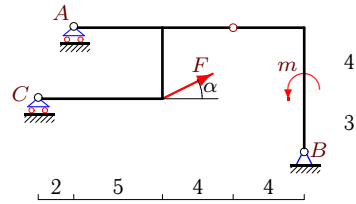
4



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

Задача 24.12.

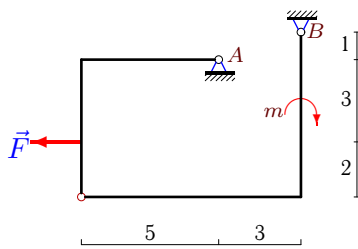
4



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

Задача 24.13.

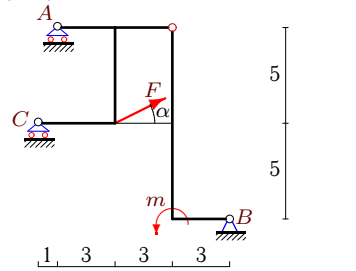
4



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

Задача 24.14.

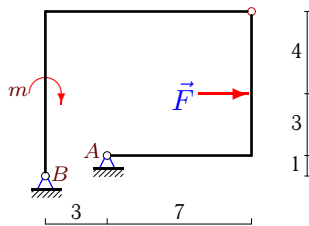
4



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

Задача 24.15.

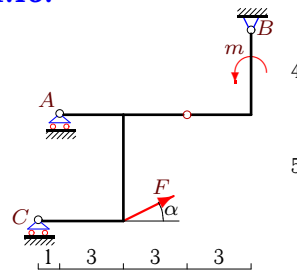
4



$F = 7 \text{ кН}, m = 4 \text{ кНМ.}$

Задача 24.16.

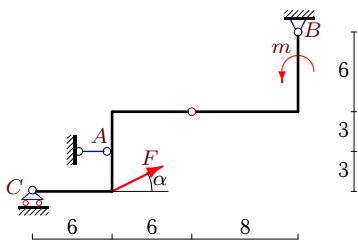
4



$F = 5 \text{ кН}, m = 5 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.17.

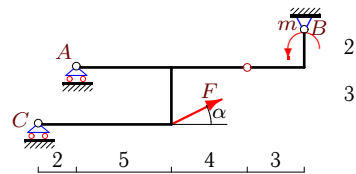
4



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

Задача 24.18.

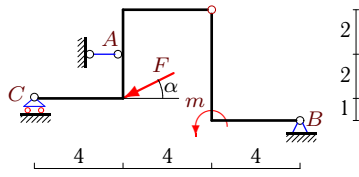
4



$F = 10 \text{ кН}, m = 20 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.19.

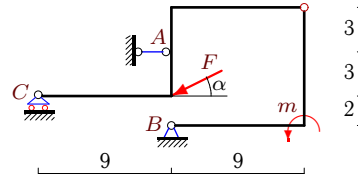
4



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

Задача 24.20.

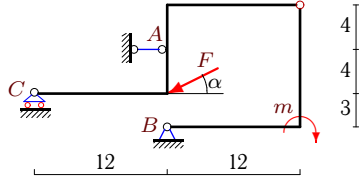
4



$F = 195 \text{ кН}, m = 390 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.21.

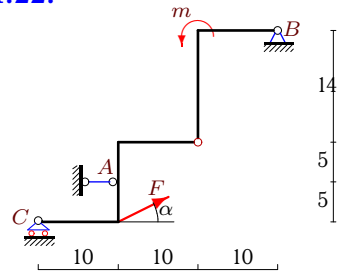
4



$F = 30 \text{ кН}, m = 60 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.22.

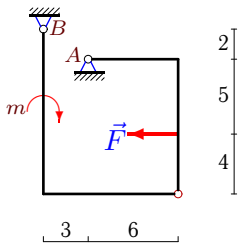
4



$F = 230 \text{ кН}, m = 230 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.23.

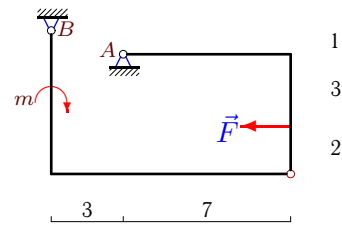
4



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

Задача 24.24.

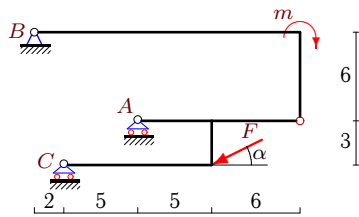
4



$F = 2 \text{ кН}, m = 4 \text{ кНМ}.$

Задача 24.25.

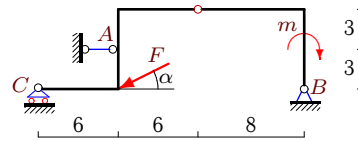
4



$F = 45 \text{ кН}, m = 90 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.26.

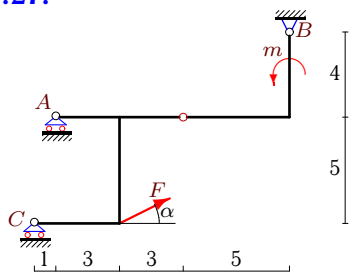
4



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

Задача 24.27.

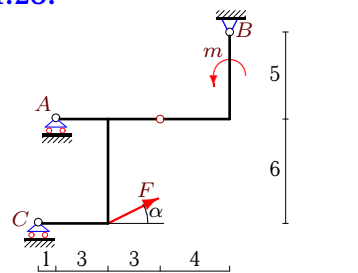
4



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

Задача 24.28.

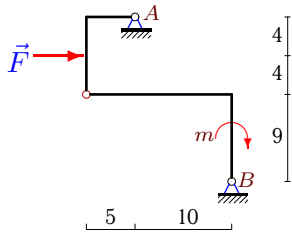
4



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

Задача 24.29.

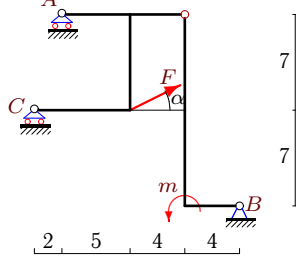
4



$F = 36 \text{ кН}, m = 3 \text{ кНМ.}$

Задача 24.31.

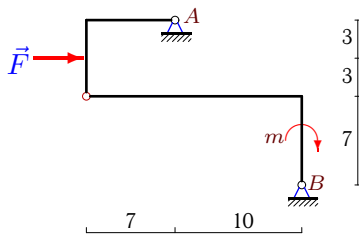
4



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

Задача 24.33.

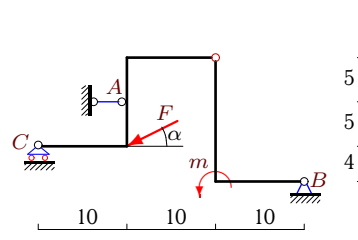
4



$F = 21 \text{ кН}, m = 2 \text{ кНМ.}$

Задача 24.30.

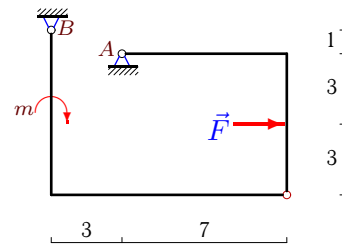
4



$F = 165 \text{ кН}, m = 330 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.32.

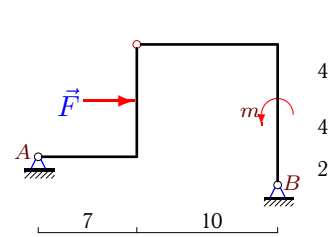
4



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

Задача 24.34.

4



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

Простая составная конструкция

	X_A	Y_A	X_B	Y_B	Y_C	M_B
1	-62	-	-30	-65	-4	-
2	-10	-5	-5	5	-	-
3	-528	-	216	-133	-101	-
4	-	131	24	-15	-98	-
5	-	43	-16	-29	-26	-
6	-5	-3	-3	3	-	-
7	-19	-21	23	21	-	-
8	-33	30	37	-30	-	-
9	-7	3	-5	-3	-	-
10	-1	1	-2	-1	-	-
11	84	-	-20	35	13	-
12	-	-173	-16	18	143	-
13	-9	-11	14	11	-	-
14	-	-341	-12	35	297	-
15	10	14	-17	-14	-	-
16	-	17	-4	-7	-13	-
17	-4	-	-60	-55	7	-
18	-	33	-8	-12	-27	-
19	22	-	-10	5	4	-
20	99	-	57	94	23	-
21	0	-	24	17	1	-
22	-104	-	-80	-135	-3	-
23	-8	14	11	-14	-	-
24	-9	7	11	-7	-	-
25	-	130	36	-17	-86	-
26	84	-	-20	35	13	-
27	-	-13	-20	-21	19	-
28	-	31	-16	-25	-18	-
29	-23	-8	-13	8	-	-
30	202	-	-70	65	34	-
31	-	-351	-16	46	293	-
32	2	-3	-5	3	-	-
33	-14	-3	-7	3	-	-
34	-1	0	-1	0	-	-