

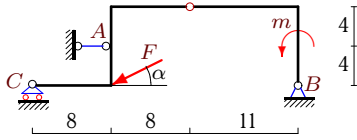
## Простая составная конструкция

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.**

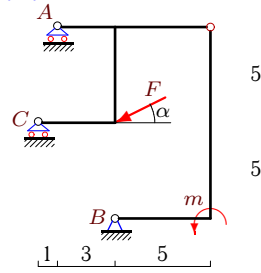
7



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

**Задача 24.2.**

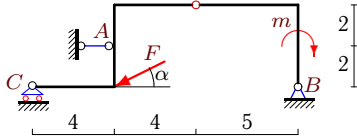
7



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

**Задача 24.3.**

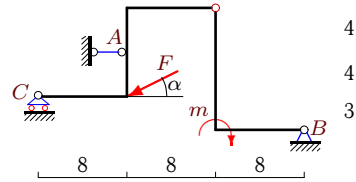
7



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

**Задача 24.4.**

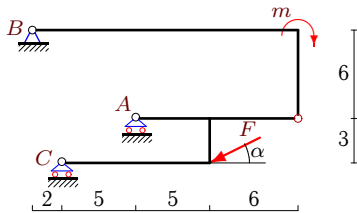
7



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

**Задача 24.5.**

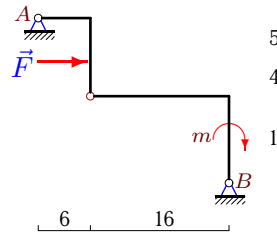
7



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

**Задача 24.6.**

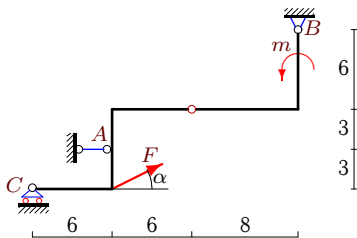
7



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

**Задача 24.7.**

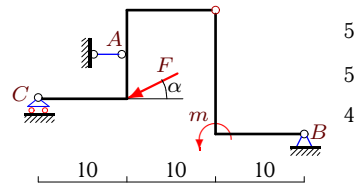
7



$$F = 40 \text{ кН}, m = 80 \text{ кНМ}, \cos \alpha = 0.8.$$

**Задача 24.8.**

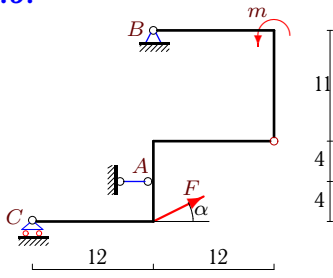
7



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

**Задача 24.9.**

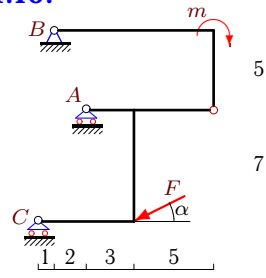
7



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

**Задача 24.10.**

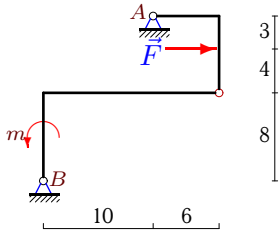
7



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

**Задача 24.11.**

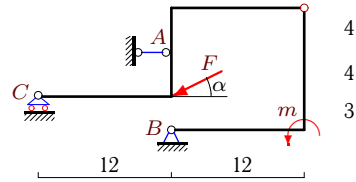
7



$F = 9 \text{ кН}, m = 8 \text{ кНм}.$

**Задача 24.12.**

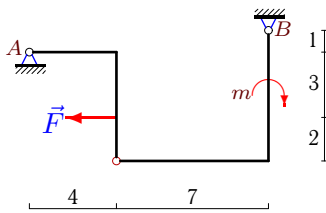
7



$F = 270 \text{ кН}, m = 540 \text{ кНм}, \cos \alpha = 0.8.$

**Задача 24.13.**

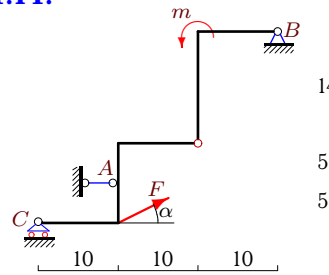
7



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

**Задача 24.14.**

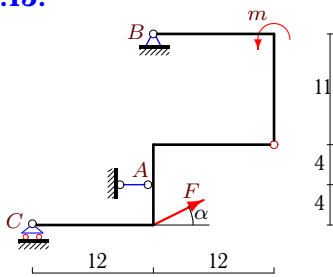
7



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

**Задача 24.15.**

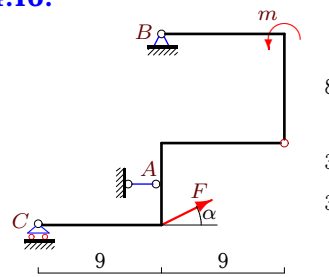
7



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

**Задача 24.16.**

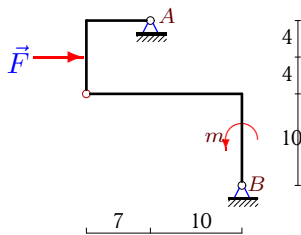
7



$F = 285 \text{ кН}, m = 570 \text{ кНм}, \cos \alpha = 0.8.$

**Задача 24.17.**

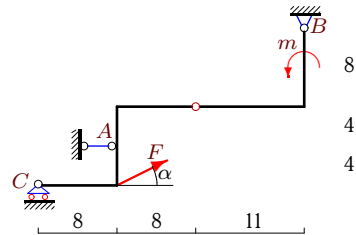
7



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

**Задача 24.18.**

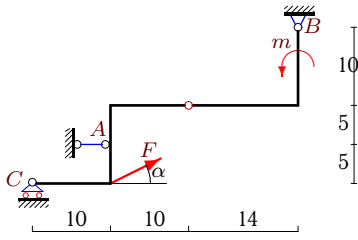
7



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

**Задача 24.19.**

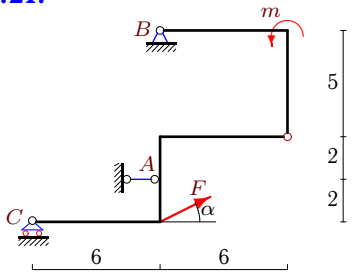
7



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

**Задача 24.21.**

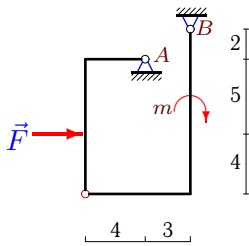
7



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

**Задача 24.23.**

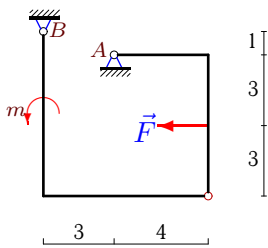
7



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

**Задача 24.25.**

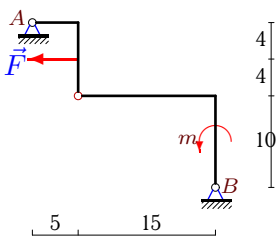
7



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

**Задача 24.27.**

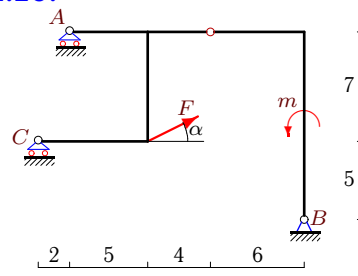
7



$F = 5 \text{ кН}, m = 10 \text{ кНМ}.$

**Задача 24.20.**

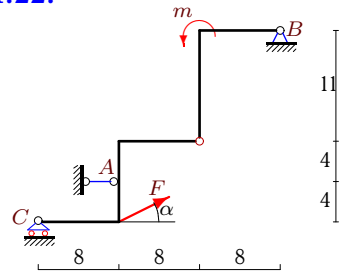
7



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

**Задача 24.22.**

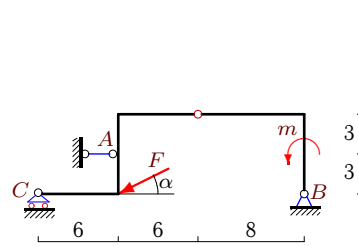
7



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

**Задача 24.24.**

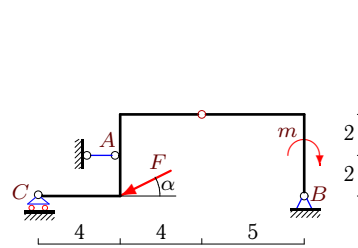
7



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

**Задача 24.26.**

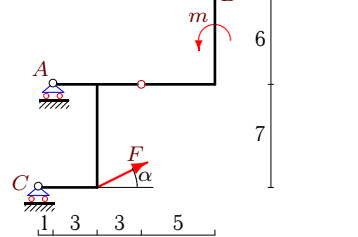
7



$F = 105 \text{ кН}, m = 210 \text{ кНМ}, \cos \alpha = 0.8.$

**Задача 24.28.**

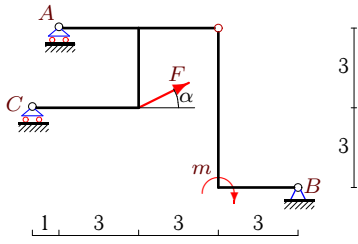
7



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

**Задача 24.29.**

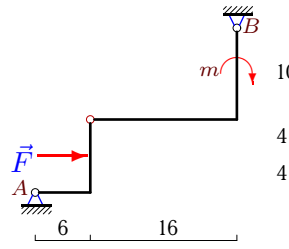
7



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

**Задача 24.30.**

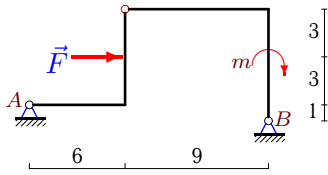
7



$F = 11 \text{ кН}, m = 4 \text{ кНМ}.$

**Задача 24.31.**

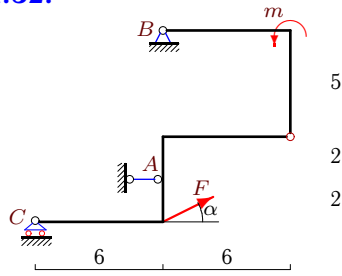
7



$F = 26 \text{ кН}, m = 5 \text{ кНМ}.$

**Задача 24.32.**

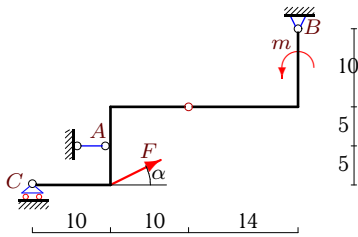
7



$F = 180 \text{ кН}, m = 360 \text{ кНМ}, \cos \alpha = 0.8.$

**Задача 24.33.**

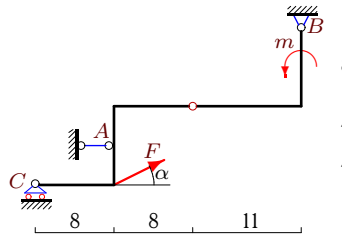
7



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

**Задача 24.34.**

7



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

**Простая составная конструкция**

	$X_A$	$Y_A$	$X_B$	$Y_B$	$Y_C$	$M_B$
1	302	-	-130	75	54	-
2	-	-49	4	9	43	-
3	38	-	-10	15	6	-
4	62	-	-10	30	9	-
5	-	130	36	-17	-86	-
6	0	-4	-6	4	-	-
7	-12	-	-20	-25	1	-
8	202	-	-70	65	34	-
9	-83	-	31	-23	-16	-
10	-	49	8	-5	-38	-
11	-6	1	-3	-1	-	-
12	120	-	96	133	29	-
13	2	-1	1	1	-	-
14	-104	-	-80	-135	-3	-
15	-528	-	216	-133	-101	-
16	-405	-	177	-94	-77	-
17	-14	-4	-7	4	-	-
18	-2	-	-10	-10	1	-
19	16	-	-120	-95	17	-
20	-	-178	-12	19	150	-
21	-21	-	9	-5	-4	-
22	-26	-	-10	-25	-2	-
23	4	15	-10	-15	-	-
24	124	-	-60	25	23	-
25	0	3	4	-3	-	-
26	94	-	-10	50	13	-
27	0	4	5	-4	-	-
28	-	3	-20	-29	11	-
29	-	-275	-12	29	237	-
30	-1	6	-10	-6	-	-
31	-19	-6	-7	6	-	-
32	-282	-	138	-55	-53	-
33	-2	-	-50	-45	6	-
34	-2	-	-10	-10	1	-