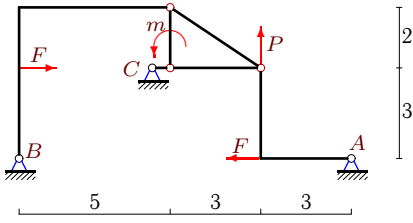


## Составная конструкция из трех тел

Найти реакции опор составной конструкции. Размеры даны в метрах.

**Задача 25.1.**

3



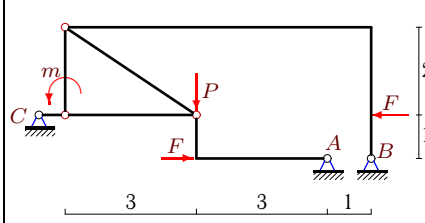
$$m = 75 \text{ кНм},$$

$$F = 25 \text{ кН},$$

$$P = 75 \text{ кН}.$$

**Задача 25.2.**

3



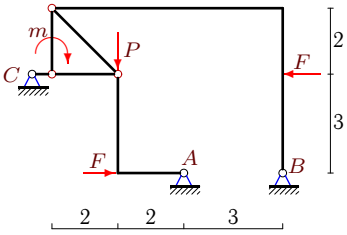
$$m = 10 \text{ кНм},$$

$$F = 5 \text{ кН},$$

$$P = 5 \text{ кН}.$$

**Задача 25.3.**

3



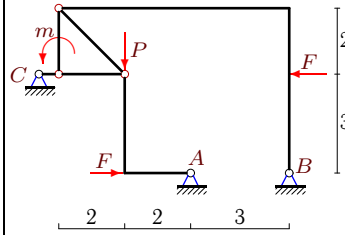
$$m = 12 \text{ кНм},$$

$$F = 4 \text{ кН},$$

$$P = 12 \text{ кН}.$$

**Задача 25.4.**

3



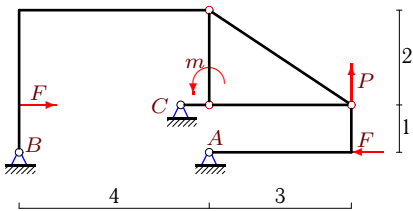
$$m = 12 \text{ кНм},$$

$$F = 4 \text{ кН},$$

$$P = 12 \text{ кН}.$$

**Задача 25.5.**

3



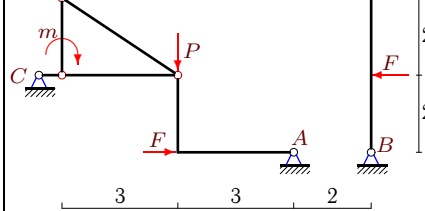
$$m = 17 \text{ кНм},$$

$$F = 17 \text{ кН},$$

$$P = 17 \text{ кН}.$$

**Задача 25.6.**

3



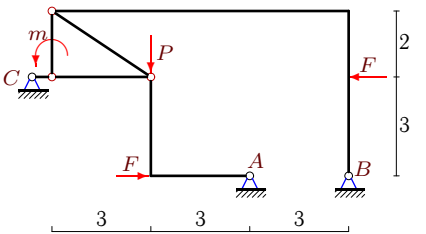
$$m = 4 \text{ кНм},$$

$$F = 2 \text{ кН},$$

$$P = 4 \text{ кН}.$$

**Задача 25.7.**

3



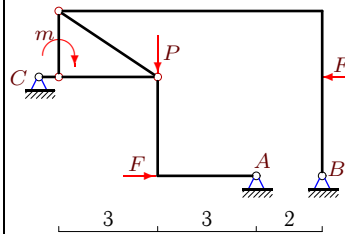
$$m = 3 \text{ кНм},$$

$$F = 1 \text{ кН},$$

$$P = 3 \text{ кН}.$$

**Задача 25.8.**

3



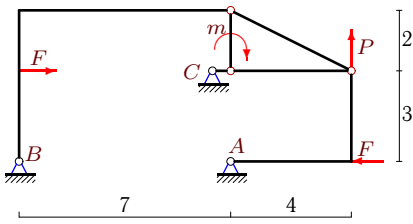
$$m = 3 \text{ кНм},$$

$$F = 1 \text{ кН},$$

$$P = 3 \text{ кН}.$$

**Задача 25.9.**

3



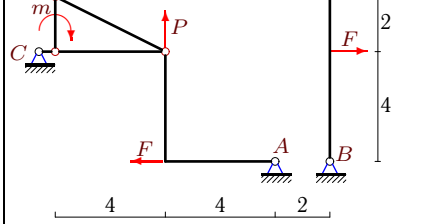
$$m = 102 \text{ кНм},$$

$$F = 34 \text{ кН},$$

$$P = 102 \text{ кН}.$$

**Задача 25.10.**

3



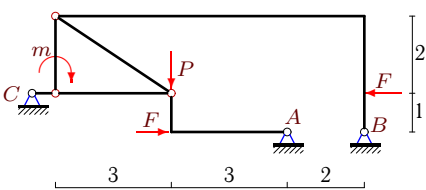
$$m = 4 \text{ кНм},$$

$$F = 1 \text{ кН},$$

$$P = 4 \text{ кН}.$$

**Задача 25.11.**

3



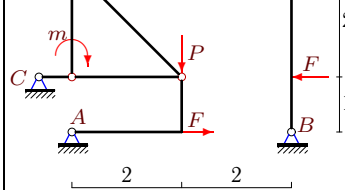
$$m = 3 \text{ кНм},$$

$$F = 1 \text{ кН},$$

$$P = 1 \text{ кН}.$$

**Задача 25.12.**

3



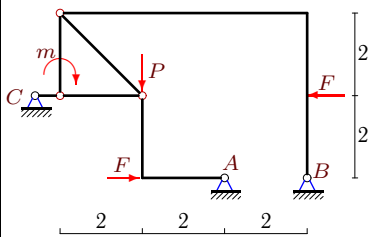
$$m = 2 \text{ кНм},$$

$$F = 1 \text{ кН},$$

$$P = 1 \text{ кН}.$$

**Задача 25.13.**

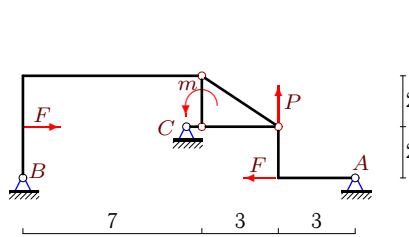
3



$m = 6 \text{ кНм},$   
 $F = 1 \text{ кН},$   
 $P = 2 \text{ кН}.$

**Задача 25.14.**

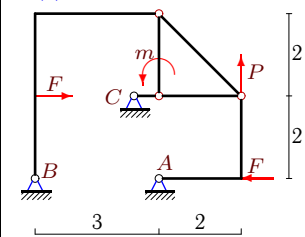
3



$m = 52 \text{ кНм},$   
 $F = 13 \text{ кН},$   
 $P = 26 \text{ кН}.$

**Задача 25.15.**

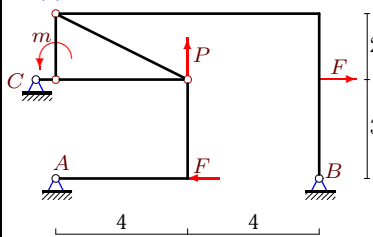
3



$m = 14 \text{ кНм},$   
 $F = 7 \text{ кН},$   
 $P = 14 \text{ кН}.$

**Задача 25.16.**

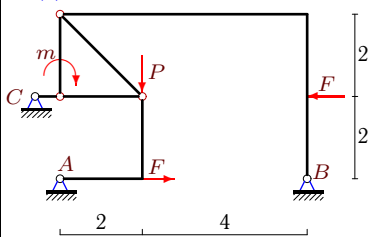
3



$m = 12 \text{ кНм},$   
 $F = 4 \text{ кН},$   
 $P = 12 \text{ кН}.$

**Задача 25.17.**

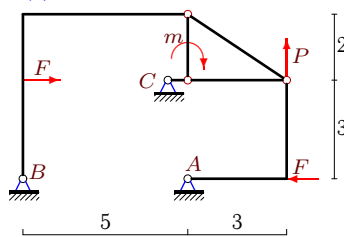
3



$m = 4 \text{ кНм},$   
 $F = 1 \text{ кН},$   
 $P = 2 \text{ кН}.$

**Задача 25.18.**

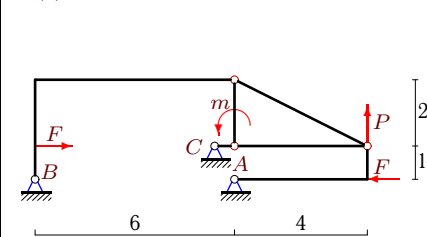
3



$m = 75 \text{ кНм},$   
 $F = 25 \text{ кН},$   
 $P = 75 \text{ кН}.$

**Задача 25.19.**

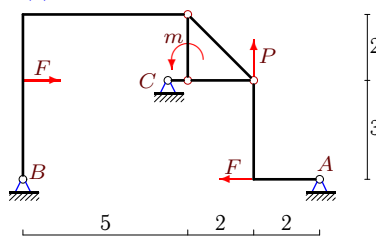
3



$m = 72 \text{ кНм},$   
 $F = 24 \text{ кН},$   
 $P = 24 \text{ кН}.$

**Задача 25.20.**

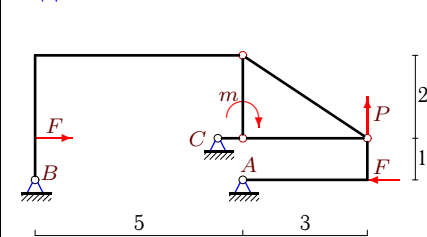
3



$m = 30 \text{ кНм},$   
 $F = 5 \text{ кН},$   
 $P = 15 \text{ кН}.$

**Задача 25.21.**

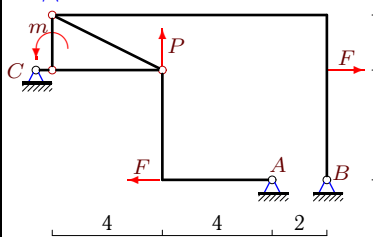
3



$m = 38 \text{ кНм},$   
 $F = 19 \text{ кН},$   
 $P = 19 \text{ кН}.$

**Задача 25.22.**

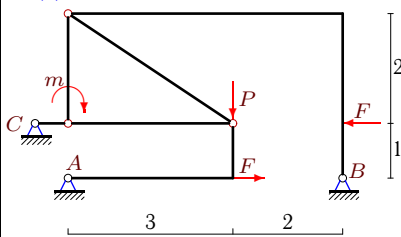
3



$m = 8 \text{ кНм},$   
 $F = 1 \text{ кН},$   
 $P = 4 \text{ кН}.$

**Задача 25.23.**

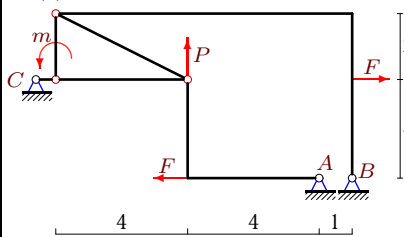
3



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

**Задача 25.24.**

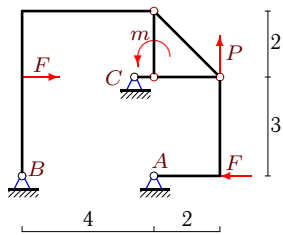
3



$m = 18 \text{ кНм},$   
 $F = 2 \text{ кН},$   
 $P = 6 \text{ кН}.$

**Задача 25.25.**

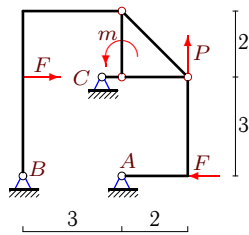
3



$m = 54 \text{ кНм},$   
 $F = 9 \text{ кН},$   
 $P = 27 \text{ кН}.$

**Задача 25.26.**

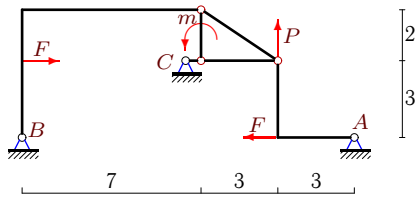
3



$m = 12 \text{ кНм},$   
 $F = 2 \text{ кН},$   
 $P = 6 \text{ кН}.$

**Задача 25.27.**

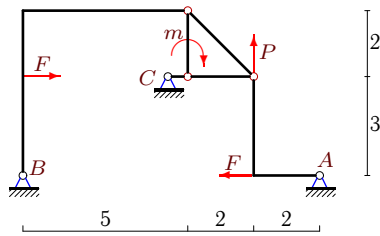
3



$m = 174 \text{ кНм},$   
 $F = 29 \text{ кН},$   
 $P = 87 \text{ кН}.$

**Задача 25.28.**

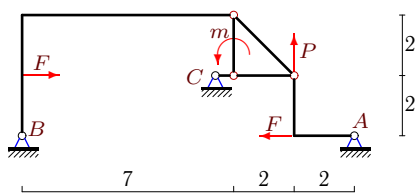
3



$m = 60 \text{ кНм},$   
 $F = 20 \text{ кН},$   
 $P = 60 \text{ кН}.$

**Задача 25.29.**

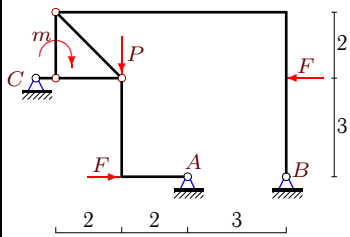
3



$m = 22 \text{ кНм},$   
 $F = 11 \text{ кН},$   
 $P = 22 \text{ кН}.$

**Задача 25.30.**

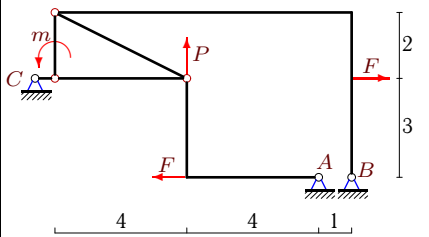
3



$m = 12 \text{ кНм},$   
 $F = 4 \text{ кН},$   
 $P = 12 \text{ кН}.$

**Задача 25.31.**

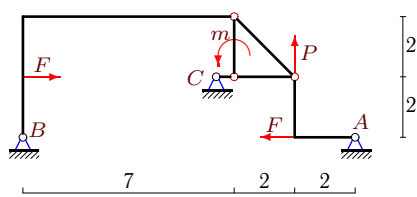
3



$m = 6 \text{ кНм},$   
 $F = 2 \text{ кН},$   
 $P = 6 \text{ кН}.$

**Задача 25.32.**

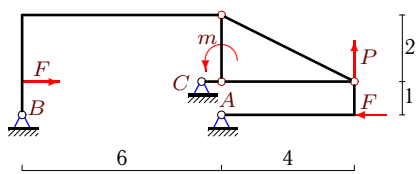
3



$m = 22 \text{ кНм},$   
 $F = 11 \text{ кН},$   
 $P = 22 \text{ кН}.$

**Задача 25.33.**

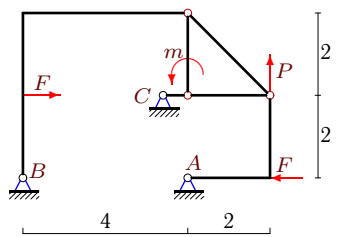
3



$m = 24 \text{ кНм},$   
 $F = 24 \text{ кН},$   
 $P = 24 \text{ кН}.$

**Задача 25.34.**

3



$m = 8 \text{ кНм},$   
 $F = 4 \text{ кН},$   
 $P = 8 \text{ кН}.$

**Составная конструкция из трех тел**

№	$X_A$	$Y_A$	$X_B$	$Y_B$	$X_C$
1	109	-84	-1	9	-108
2	-44	13	22	-8	22
3	-6	3	-11	9	17
4	-26	33	31	-21	-5
5	-37	-18	-10	1	47
6	-5	2	-3	2	8
7	-11	10	13	-7	-2
8	5	-6	-14	9	9
9	-74	-81	-43	-21	117
10	-3	4	13	-8	-10
11	-1	0	-2	1	3
12	-3	-1	-2	2	5
13	2	-3	-7	5	5
14	61	-32	4	6	-65
15	-9	-16	-2	2	11
16	-24	-21	-16	9	40
17	-2	-1	-4	3	6
18	-29	-54	-31	-21	60
19	-100	-31	-2	7	102
20	19	-21	4	6	-23
21	-14	-11	-26	-8	40
22	15	-14	-17	10	2
23	-19	-6	-11	7	30
24	62	-45	-71	39	9
25	-17	-39	6	12	11
26	-4	-9	1	3	3
27	140	-111	22	24	-162
28	46	-39	-29	-21	-17
29	35	-24	-2	2	-33
30	-6	3	-11	9	17
31	22	-15	-17	9	-5
32	35	-24	-2	2	-33
33	-76	-25	-14	1	90
34	-5	-9	-1	1	6