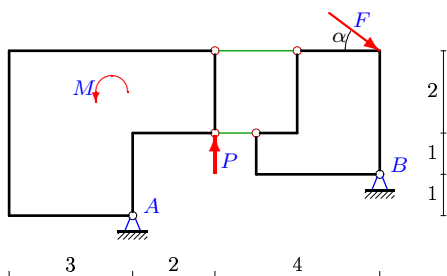


Две пластины, соединенные стержнями

Конструкция состоит из двух пластин, соединенных параллельными невесомыми стержнями. Определить реакции опор конструкции (в кН). Размеры даны в метрах.

Задача 32.1.

2

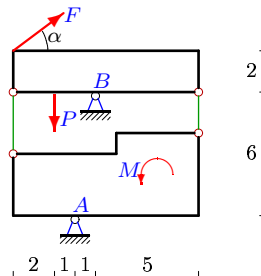


$$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = 26 \text{ кН}.$$

Задача 32.2.

2

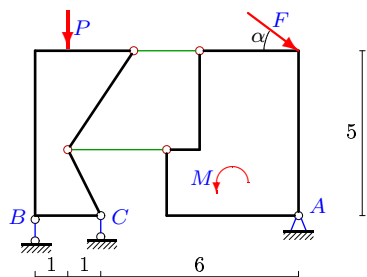


$$F=25 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = -77 \text{ кН}.$$

Задача 32.3.

2

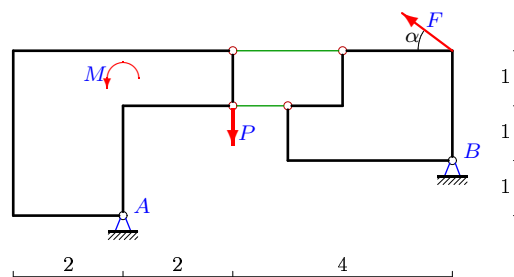


$$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = -6 \text{ кН}.$$

Задача 32.4.

2

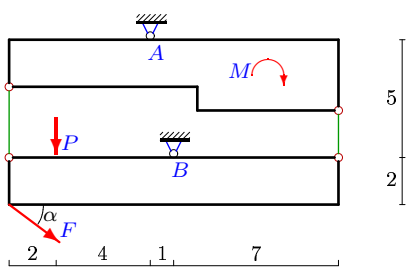


$$F=25 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = -52 \text{ кН}.$$

Задача 32.5.

2

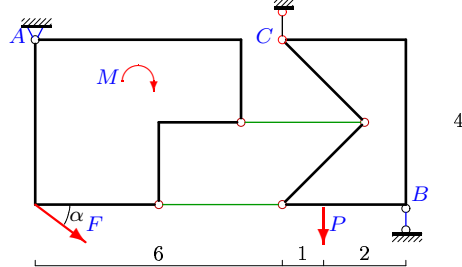


$$F=25 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = 3 \text{ кН}.$$

Задача 32.6.

2

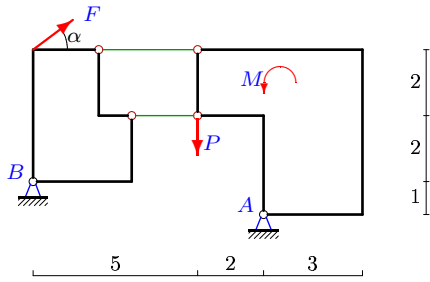


$$F=30 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$$

$$X_A + Y_B = -27 \text{ кН}.$$

Задача 32.7.

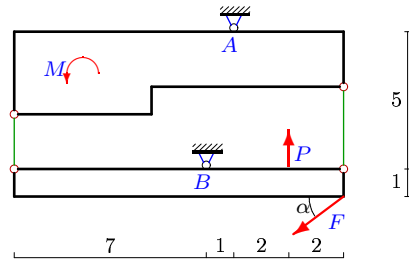
2



$F=5 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 7 \text{ кН}.$

Задача 32.8.

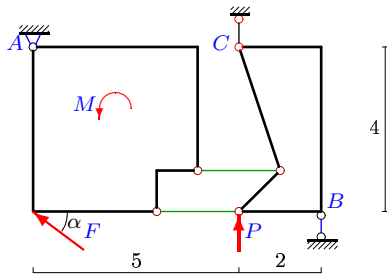
2



$F=10 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 21 \text{ кН}.$

Задача 32.9.

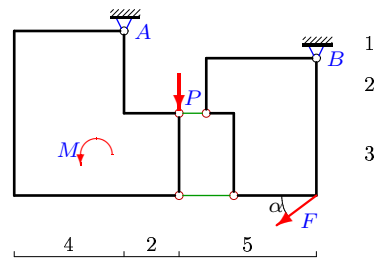
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 4 \text{ кН}.$

Задача 32.10.

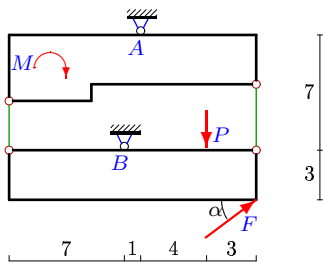
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -34 \text{ кН}.$

Задача 32.11.

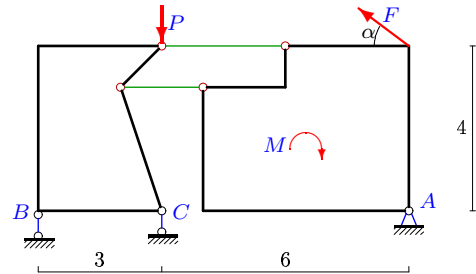
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -9 \text{ кН}.$

Задача 32.12.

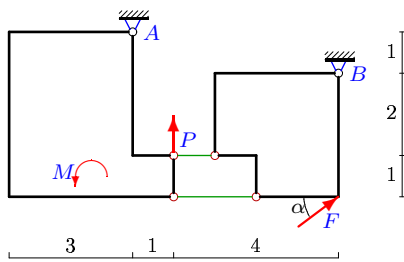
2



$F=40 \text{ кН}, P=3 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 37 \text{ кН}.$

Задача 32.13.

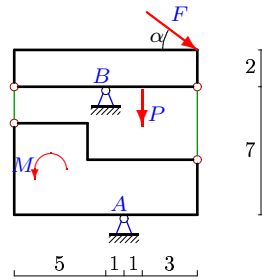
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 11 \text{ кН}.$

Задача 32.14.

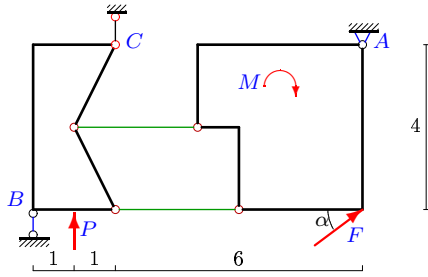
2



$F=5 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 13 \text{ кН}.$

Задача 32.15.

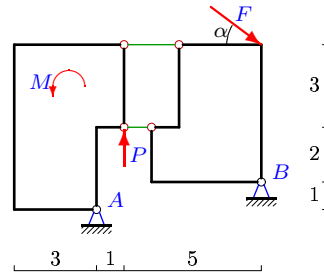
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -9 \text{ кН}.$

Задача 32.16.

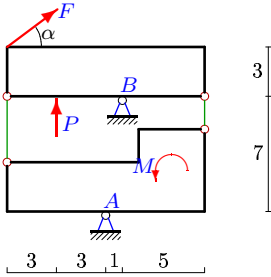
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 44 \text{ кН}.$

Задача 32.17.

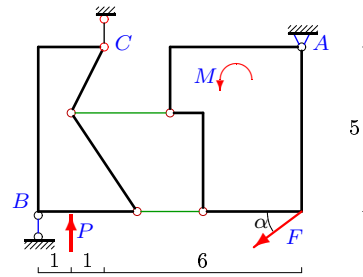
2



$F=10 \text{ кН}, P=6 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -3 \text{ кН}.$

Задача 32.18.

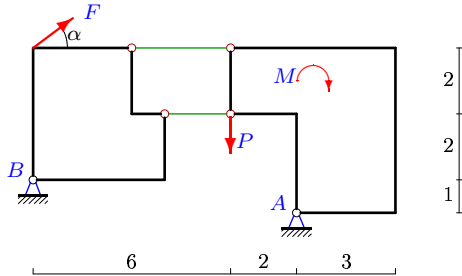
2



$F=10 \text{ кН}, P=3 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 7 \text{ кН}.$

Задача 32.19.

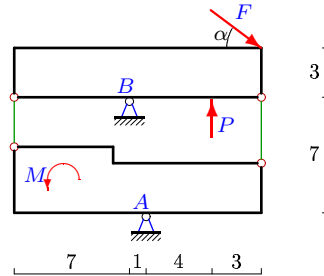
2



$F=5 \text{ кН}, P=2 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 16 \text{ кН}.$

Задача 32.20.

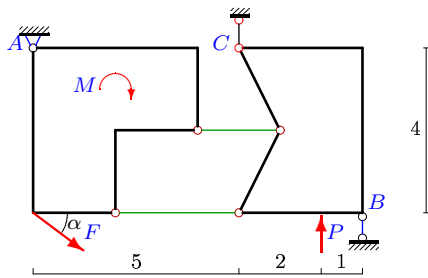
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 10 \text{ кН}.$

Задача 32.21.

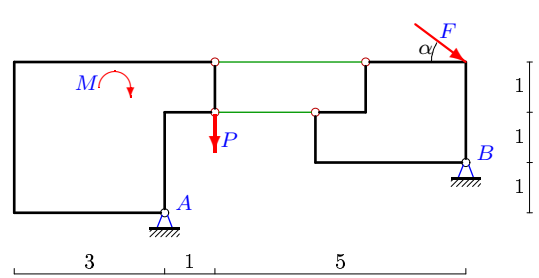
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -13 \text{ кН}.$

Задача 32.22.

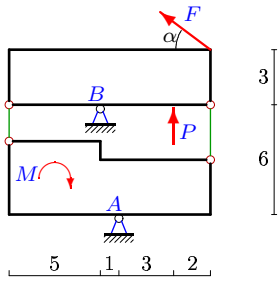
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 13 \text{ кН}.$

Задача 32.23.

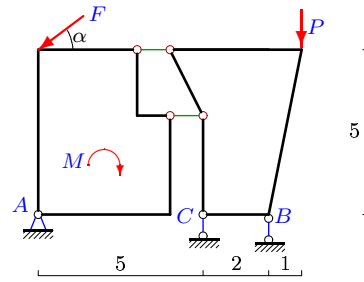
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -6 \text{ кН}.$

Задача 32.24.

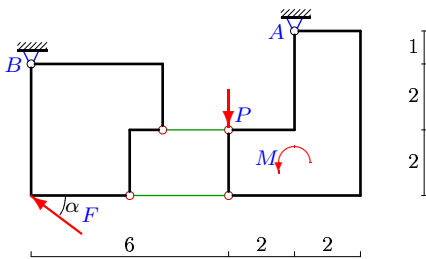
2



$F=5 \text{ кН}, P=3 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 6 \text{ кН}.$

Задача 32.25.

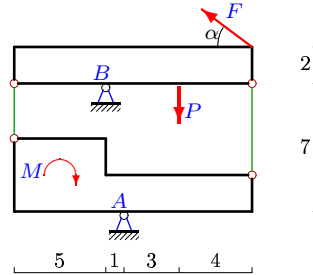
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -35 \text{ кН}.$

Задача 32.26.

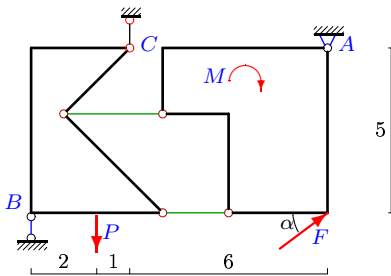
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -11 \text{ кН}.$

Задача 32.27.

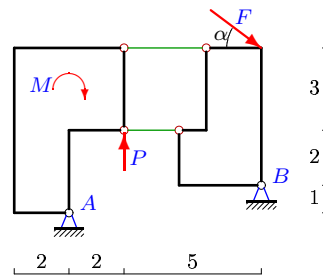
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -13 \text{ кН}.$

Задача 32.28.

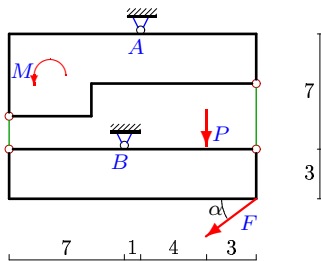
2



$F=5 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 22 \text{ кН}.$

Задача 32.29.

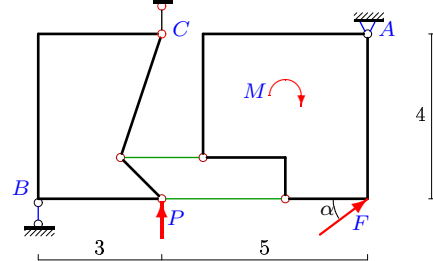
2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = 12 \text{ кН}.$

Задача 32.30.

2



$F=10 \text{ кН}, P=1 \text{ кН}, \cos \alpha = \frac{4}{5},$
 $X_A + Y_B = -12 \text{ кН}.$

Ответы.**Две пластины, соединенные стержнями**

14-May-23

	M	X_A	Y_A	X_B	Y_B	Y_C	
1	2	20	-1	-28	6	—	
2	160	0	64	-20	-77	—	
3	43	-8	6	—	2	-1	
4	1	-37	2	57	-15	—	
5	141	0	14	-20	3	—	
6	86	-24	18	—	-3	-4	
7	2	10	2	-14	-3	—	
8	49	0	-17	8	21	—	
9	40	8	-6	—	-4	-3	
10	2	-40	1	48	6	—	
11	38	0	7	-4	-9	—	
12	113	32	-24	—	5	-2	
13	1	14	-1	-18	-3	—	
14	35	0	-8	-4	13	—	
15	25	-4	-3	—	-5	-4	
16	1	38	-1	-46	6	—	
17	81	0	-9	-8	-3	—	
18	41	8	6	—	-1	2	
19	7	19	2	-23	-3	—	
20	39	0	-8	-4	10	—	
21	19	-8	6	—	-5	-4	
22	1	10	1	-14	3	—	
23	36	0	2	4	-6	—	
24	15	4	3	—	2	1	
25	1	-29	1	37	-6	—	
26	37	0	9	4	-11	—	
27	56	-8	-6	—	-5	-6	
28	1	19	-1	-23	3	—	
29	82	0	-5	8	12	—	
30	44	-8	-6	—	-4	-3	

S-32 файл 32s2WB