

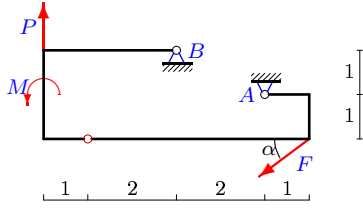
## Простая составная конструкция

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

Кирсанов М.Н. Задачи по теоретической механике с решениями в Maple 11. – М.: ФИЗМАТЛИТ, 2010. – 264 с. (с.15)

Задача S-24.1.

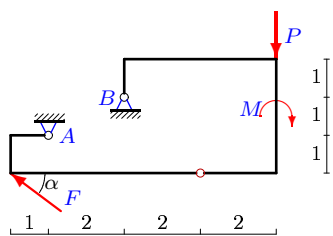
999



$P = 2$  кН,  $F = 5$  кН,  $M = 2$  кНм,  $\cos \alpha = 0,8$ .

Задача S-24.2.

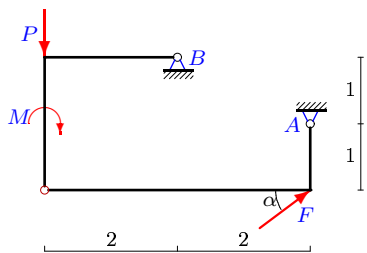
999



$P = 2 \text{ кН}$ ,  $F = 5 \text{ кН}$ ,  $M = 2 \text{ кНм}$ ,  $\cos \alpha = 0,8$ .

Задача S-24.3.

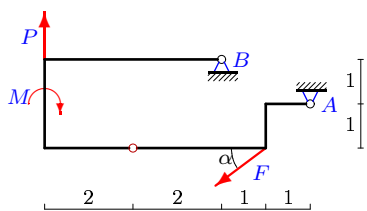
999



$P = 3$  кН,  $F = 15$  кН,  $M = 6$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.4.

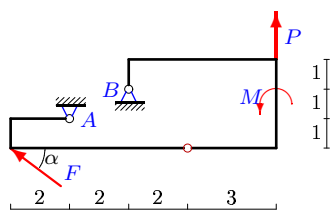
999



$P = 6$  кН,  $F = 15$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.5.

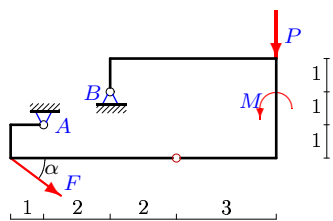
999



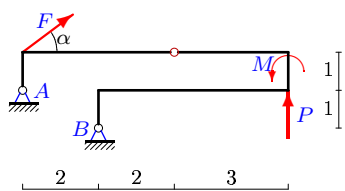
$P = 4$  кН,  $F = 10$  кН,  $M = 2$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.6.

999



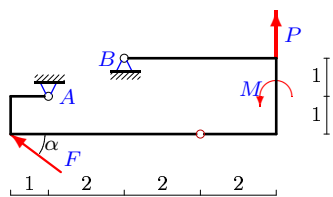
$P = 6$  кН,  $F = 30$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .



$P = 3$  кН,  $F = 15$  кН,  $M = 3$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.8.

999

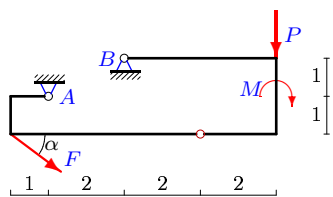


$P = 12$  кН,  $F = 15$  кН,  $M = 6$  кНм,  
 $\cos \alpha = 0,8$ .



Задача S-24.9.

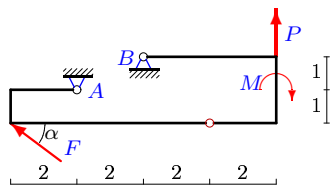
999



$P = 6 \text{ кН}$ ,  $F = 15 \text{ кН}$ ,  $M = 6 \text{ кНм}$ ,  
 $\cos \alpha = 0,8$ .

Задача S-24.10.

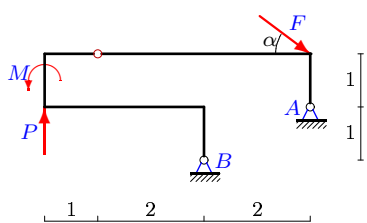
999



$P = 4 \text{ кН}$ ,  $F = 5 \text{ кН}$ ,  $M = 2 \text{ кНм}$ ,  $\cos \alpha = 0,8$ .

Задача S-24.11.

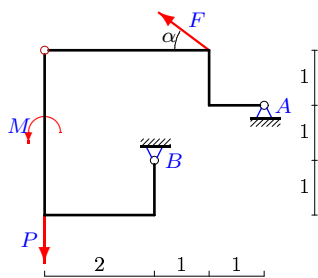
999



$P = 3 \text{ кН}, F = 15 \text{ кН}, M = 3 \text{ кНм},$   
 $\cos \alpha = 0,8.$

Задача S-24.12.

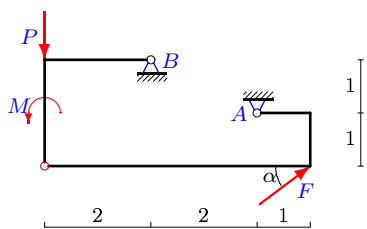
999



$P = 12$  кН,  $F = 15$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.13.

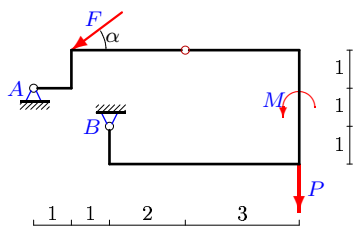
999



$P = 6$  кН,  $F = 30$  кН,  $M = 6$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.14.

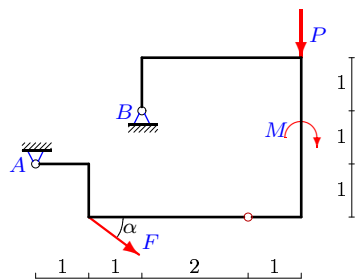
999



$P = 6$  кН,  $F = 15$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.15.

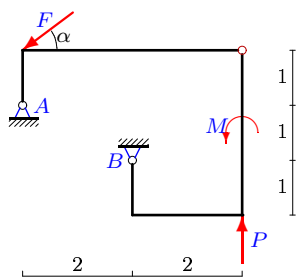
999



$P = 12$  кН,  $F = 15$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.16.

999

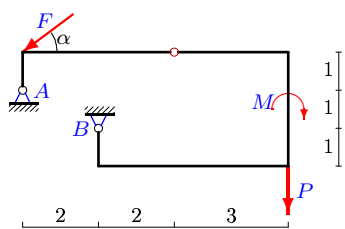


$P = 6$  кН,  $F = 15$  кН,  $M = 6$  кНм,  
 $\cos \alpha = 0,8$ .



Задача S-24.17.

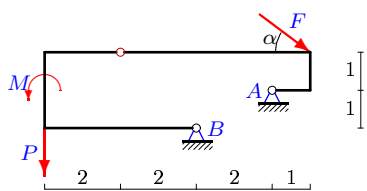
999



$P = 6 \text{ кН}$ ,  $F = 15 \text{ кН}$ ,  $M = 6 \text{ кНм}$ ,  
 $\cos \alpha = 0,8$ .

Задача S-24.18.

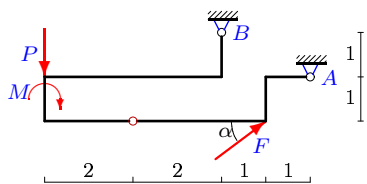
999



$P = 4 \text{ кН}$ ,  $F = 5 \text{ кН}$ ,  $M = 4 \text{ кНм}$ ,  $\cos \alpha = 0,8$ .

Задача S-24.19.

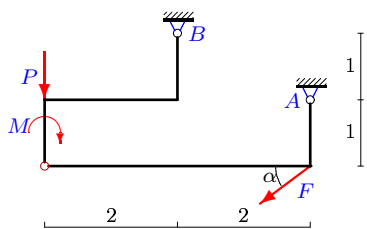
999



$P = 2 \text{ кН}$ ,  $F = 5 \text{ кН}$ ,  $M = 4 \text{ кНм}$ ,  $\cos \alpha = 0,8$ .

Задача S-24.20.

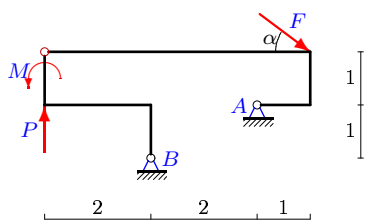
999



$P = 12 \text{ кН}, F = 30 \text{ кН}, M = 6 \text{ кНм},$   
 $\cos \alpha = 0,8.$

Задача S-24.21.

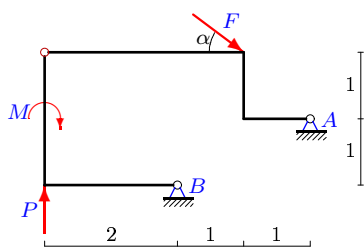
999



$P = 4 \text{ кН}$ ,  $F = 5 \text{ кН}$ ,  $M = 4 \text{ кНм}$ ,  $\cos \alpha = 0,8$ .

Задача S-24.22.

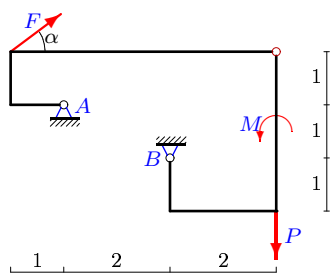
999



$P = 6$  кН,  $F = 15$  кН,  $M = 12$  кНм,  
 $\cos \alpha = 0,8$ .

Задача S-24.23.

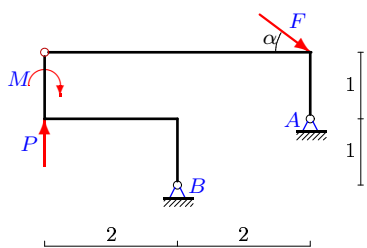
999



$P = 6 \text{ кН}, F = 15 \text{ кН}, M = 6 \text{ кНм},$   
 $\cos \alpha = 0,8.$

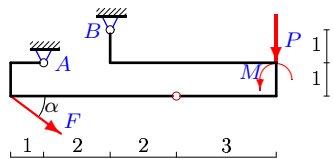
Задача S-24.24.

999



$P = 6 \text{ кН}$ ,  $F = 15 \text{ кН}$ ,  $M = 6 \text{ кНм}$ ,  
 $\cos \alpha = 0,8$ .





$P = 12$  кН,  $F = 30$  кН,  $M = 6$  кНм,  
 $\cos \alpha = 0,8$ .



**Ответы.****Простая составная конструкция**

14.04.2015

№	$X_A$	$Y_A$	$X_B$	$Y_B$	$Y_C$	$M_B$	$Y_D$
1	9	6	-5	-5	-	-	-
2	13	-7	-9	6	-	-	-
3	-16	-13	4	7	-	-	-
4	37	16	-25	-13	-	-	-
5	0	-9	8	-1	-	-	-
6	-26	29	2	-5	-	-	-
7	-4	-10	-8	-2	-	-	-
8	-17	-7	29	-14	-	-	-
9	1	11	-13	4	-	-	-
10	-2	-4	6	-3	-	-	-
11	-20	14	8	-8	-	-	-
12	37	-16	-25	19	-	-	-
13	-50	-35	26	23	-	-	-
14	1	7	11	8	-	-	-
15	19	2	-31	19	-	-	-
16	28	16	-16	-13	-	-	-
17	-8	7	20	8	-	-	-
18	7	2	-11	5	-	-	-
19	-7	-4	3	3	-	-	-
20	20	23	4	7	-	-	-
21	-9	6	5	-7	-	-	-
22	-29	14	17	-11	-	-	-
23	-23	-17	11	14	-	-	-
24	-28	16	16	-13	-	-	-
25	-2	23	-22	7	-	-	-

S-24 файл о24s999F