

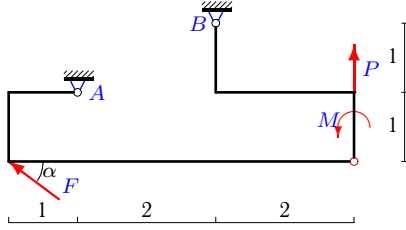
## Простая составная конструкция

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.**

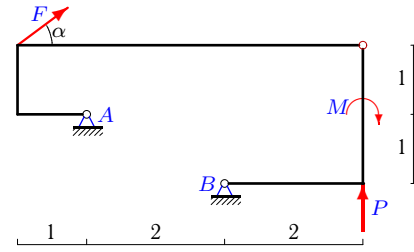
33



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

**Задача S-24.2.**

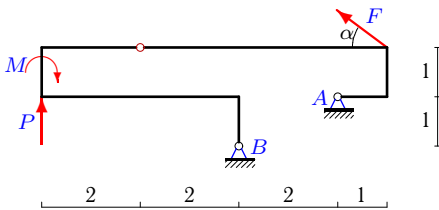
33



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

**Задача S-24.3.**

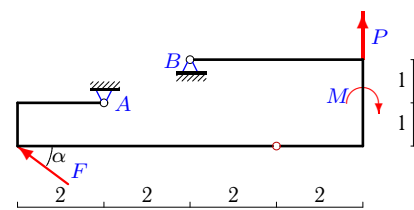
33



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

**Задача S-24.4.**

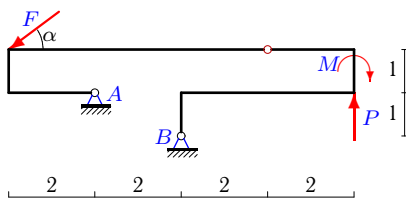
33



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

**Задача S-24.5.**

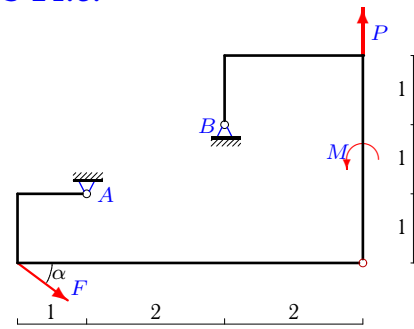
33



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

**Задача S-24.6.**

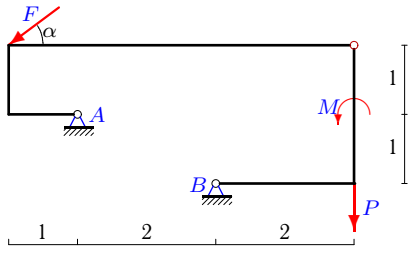
33



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

**Задача S-24.7.**

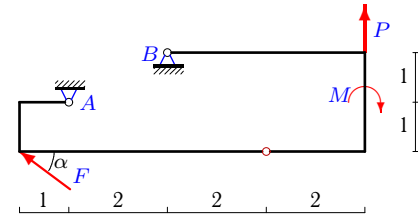
33



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

**Задача S-24.8.**

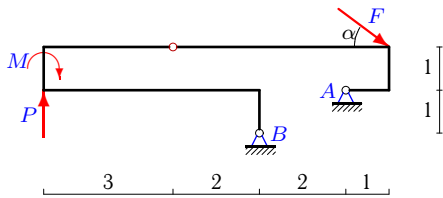
33



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

**Задача S-24.9.**

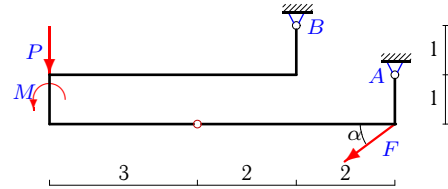
33



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

**Задача S-24.10.**

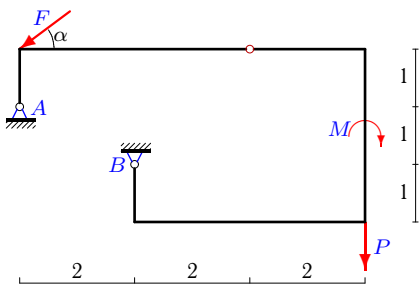
33



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

**Задача S-24.11.**

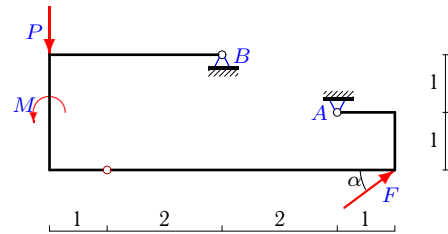
33



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

**Задача S-24.12.**

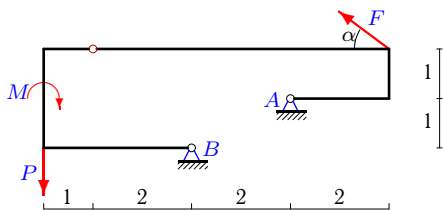
33



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

**Задача S-24.13.**

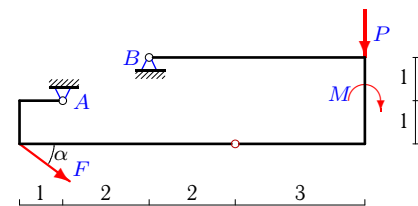
33



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

**Задача S-24.14.**

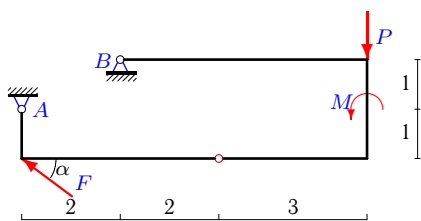
33



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

**Задача S-24.15.**

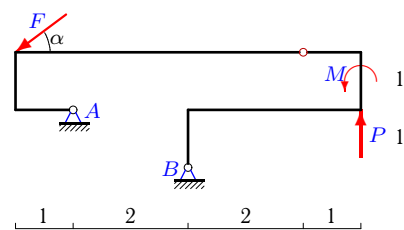
33



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

**Задача S-24.16.**

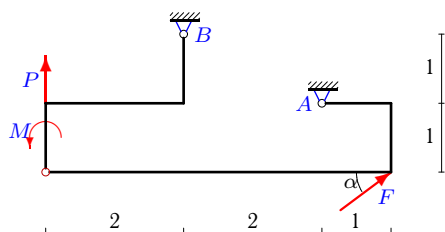
33



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

**Задача S-24.17.**

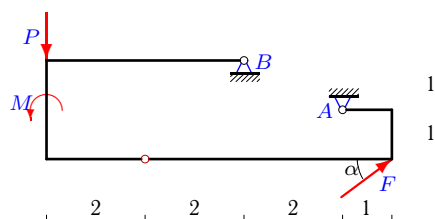
33



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

**Задача S-24.18.**

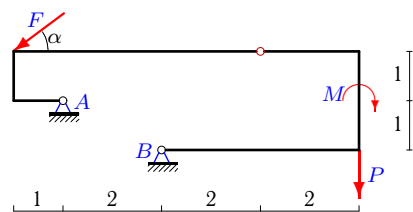
33



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

**Задача S-24.19.**

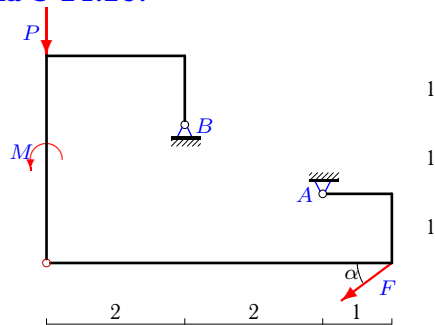
33



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

**Задача S-24.20.**

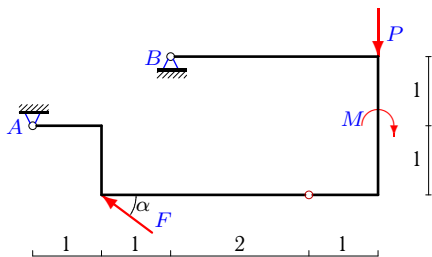
33



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

**Задача S-24.21.**

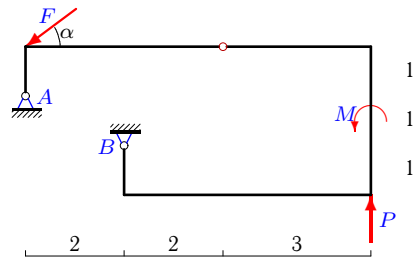
33



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

**Задача S-24.22.**

33



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

**S-24 Ответы.****Простая составная конструкция**

30.05.2013

№	$X_A$	$Y_A$	$X_B$	$Y_B$	$Y_C$	$M_B$	$Y_D$
1	-1	-11	13	-10	-	-	-
2	-26	-29	2	-1	-	-	-
3	6	-9	2	1	-	-	-
4	10	-16	2	1	-	-	-
5	10	7	-6	-6	-	-	-
6	-31	19	19	-16	-	-	-
7	11	14	1	7	-	-	-
8	7	-13	5	-2	-	-	-
9	-43	22	31	-19	-	-	-
10	4	10	8	2	-	-	-
11	-4	8	16	7	-	-	-
12	-35	-20	23	17	-	-	-
13	14	-8	-10	9	-	-	-
14	25	5	-37	16	-	-	-
15	28	-16	-16	13	-	-	-
16	13	7	-9	-6	-	-	-
17	-5	-5	1	0	-	-	-
18	-58	-37	34	25	-	-	-
19	-5	10	17	5	-	-	-
20	26	29	-2	-5	-	-	-
21	29	-14	-17	11	-	-	-
22	44	20	-32	-17	-	-	-

S-24 файл о24s33F