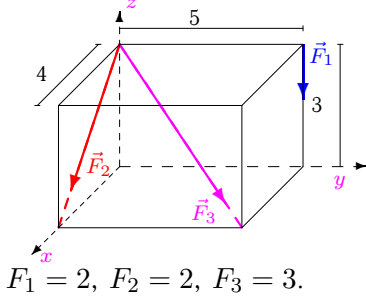


## Момент силы относительно оси

Найти моменты сил относительно осей. Размеры на рисунках даны в м, силы — в Н.

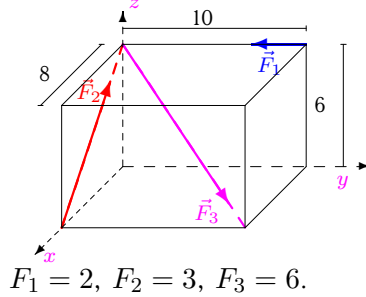
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.— М.:ФИЗМАТЛИТ, 2008.— 384 с. (с.91.)

**Задача 22.1.**



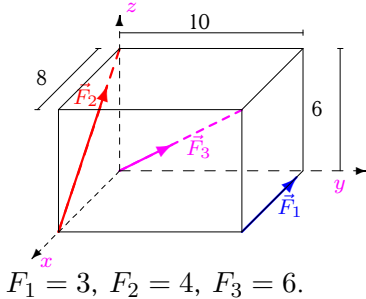
$F_1 = 2, F_2 = 2, F_3 = 3.$

**Задача 22.2.**



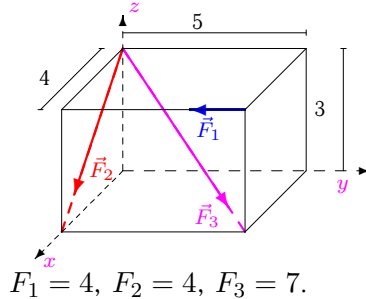
$F_1 = 2, F_2 = 3, F_3 = 6.$

**Задача 22.3.**



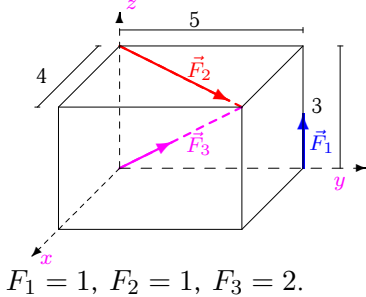
$F_1 = 3, F_2 = 4, F_3 = 6.$

**Задача 22.4.**



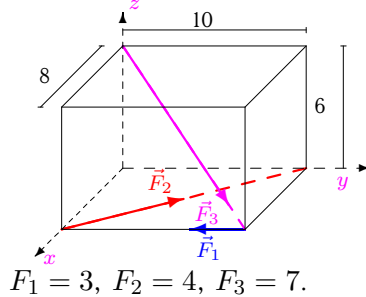
$F_1 = 4, F_2 = 4, F_3 = 7.$

**Задача 22.5.**



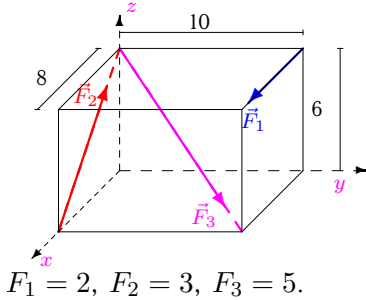
$F_1 = 1, F_2 = 1, F_3 = 2.$

**Задача 22.6.**



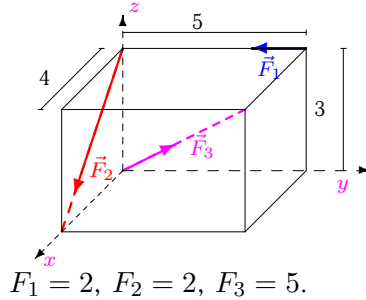
$F_1 = 3, F_2 = 4, F_3 = 7.$

**Задача 22.7.**



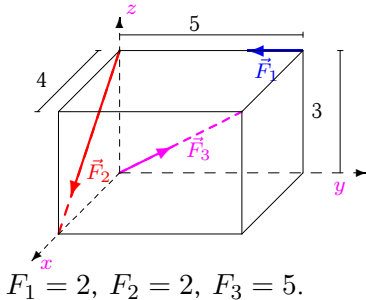
$F_1 = 2, F_2 = 3, F_3 = 5.$

**Задача 22.8.**



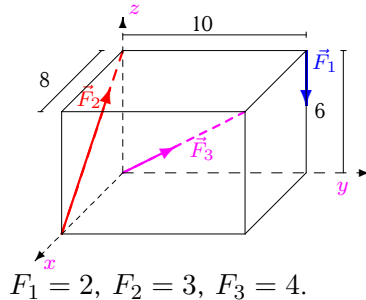
$F_1 = 2, F_2 = 2, F_3 = 5.$

**Задача 22.9.**



$F_1 = 2, F_2 = 2, F_3 = 5.$

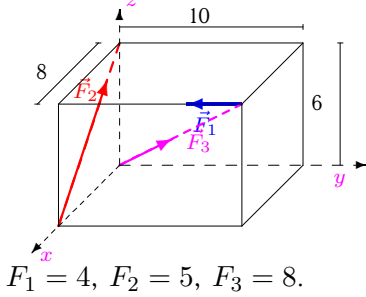
**Задача 22.10.**



$F_1 = 2, F_2 = 3, F_3 = 4.$

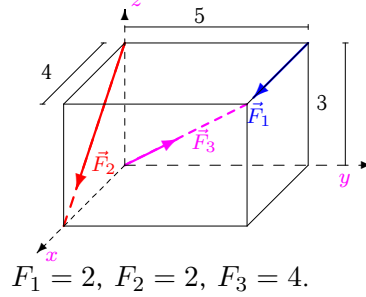
**Задача 22.11.**

9



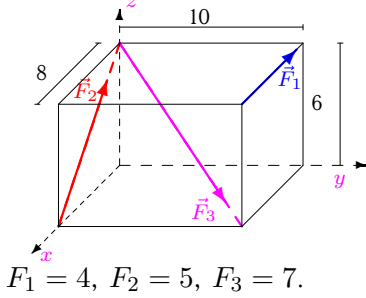
**Задача 22.12.**

9



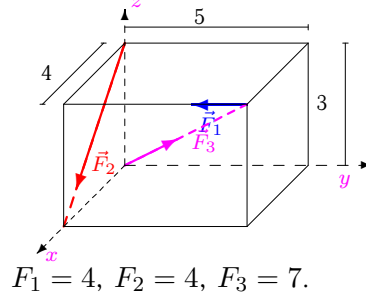
**Задача 22.13.**

9



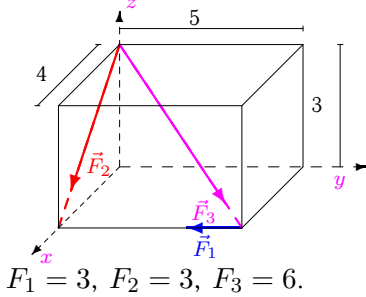
**Задача 22.14.**

9



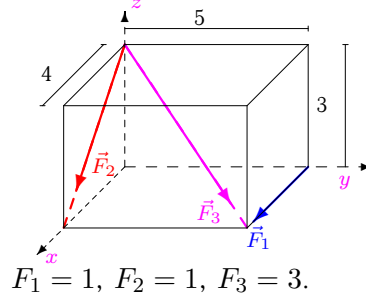
**Задача 22.15.**

9



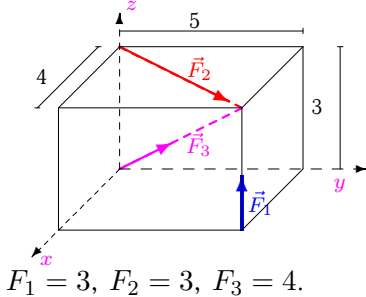
**Задача 22.16.**

9



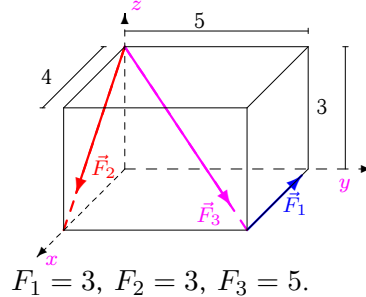
**Задача 22.17.**

9



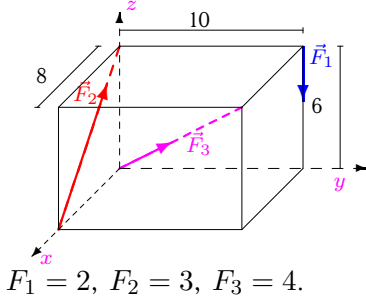
**Задача 22.18.**

9



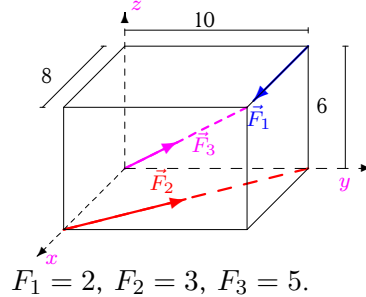
**Задача 22.19.**

9



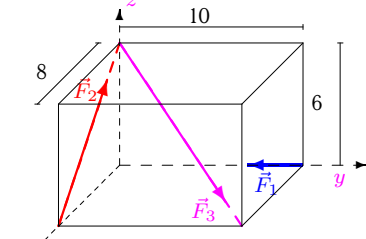
**Задача 22.20.**

9



**Задача 22.21.**

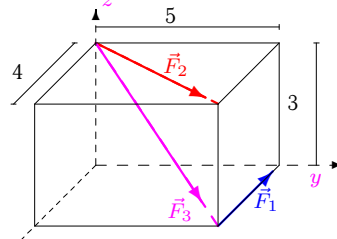
9



$F_1 = 1, F_2 = 2, F_3 = 5.$

**Задача 22.22.**

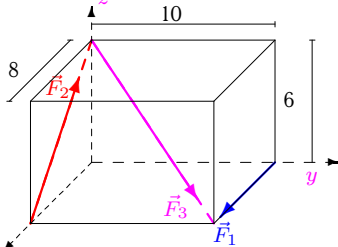
9



$F_1 = 3, F_2 = 3, F_3 = 5.$

**Задача 22.23.**

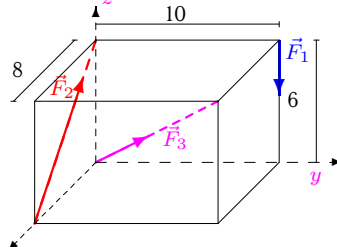
9



$F_1 = 1, F_2 = 2, F_3 = 4.$

**Задача 22.24.**

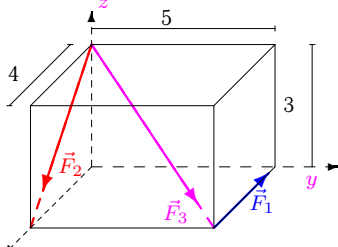
9



$F_1 = 2, F_2 = 3, F_3 = 4.$

**Задача 22.25.**

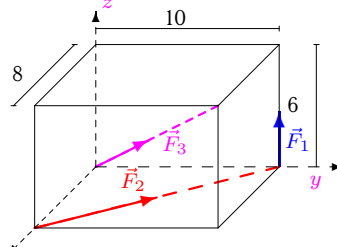
9



$F_1 = 3, F_2 = 3, F_3 = 5.$

**Задача 22.26.**

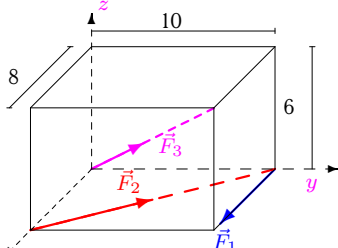
9



$F_1 = 1, F_2 = 2, F_3 = 3.$

**Задача 22.27.**

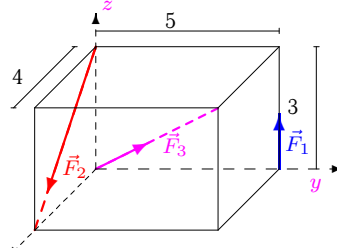
9



$F_1 = 1, F_2 = 2, F_3 = 4.$

**Задача 22.28.**

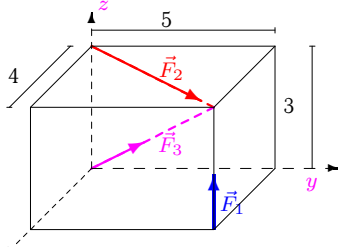
9



$F_1 = 1, F_2 = 1, F_3 = 2.$

**Задача 22.29.**

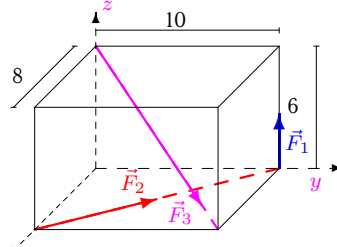
9



$F_1 = 3, F_2 = 3, F_3 = 4.$

**Задача 22.30.**

9



$F_1 = 1, F_2 = 2, F_3 = 3.$

**Момент силы относительно оси**

	$M_{1x}$	$M_{1y}$	$M_{1z}$	$M_{2x}$	$M_{2y}$	$M_{2z}$	$M_{3x}$	$M_{3y}$	$M_{3z}$
1	-10.000	0.000	0.000	0.000	4.800	0.000	-6.364	5.091	0.000
2	12.000	0.000	0.000	0.000	-14.400	0.000	-25.456	20.365	0.000
3	0.000	0.000	30.000	0.000	-19.200	0.000	0.000	0.000	0.000
4	12.000	0.000	-16.000	0.000	9.600	0.000	-14.849	11.879	0.000
5	5.000	0.000	0.000	-2.343	1.874	0.000	0.000	0.000	0.000
6	0.000	0.000	-24.000	0.000	0.000	24.988	-29.698	23.759	0.000
7	0.000	12.000	-20.000	0.000	-14.400	0.000	-21.213	16.971	0.000
8	6.000	0.000	0.000	0.000	4.800	0.000	0.000	0.000	0.000
9	6.000	0.000	0.000	0.000	4.800	0.000	0.000	0.000	0.000
10	-20.000	0.000	0.000	0.000	-14.400	0.000	0.000	0.000	0.000
11	24.000	0.000	-32.000	0.000	-24.000	0.000	0.000	0.000	0.000
12	0.000	6.000	-10.000	0.000	4.800	0.000	0.000	0.000	0.000
13	0.000	-24.000	40.000	0.000	-24.000	0.000	-29.698	23.759	0.000
14	12.000	0.000	-16.000	0.000	9.600	0.000	0.000	0.000	0.000
15	0.000	0.000	-12.000	0.000	7.200	0.000	-12.728	10.182	0.000
16	0.000	0.000	-5.000	0.000	2.400	0.000	-6.364	5.091	0.000
17	15.000	-12.000	0.000	-7.028	5.622	0.000	0.000	0.000	0.000
18	0.000	0.000	15.000	0.000	7.200	0.000	-10.607	8.485	0.000
19	-20.000	0.000	0.000	0.000	-14.400	0.000	0.000	0.000	0.000
20	0.000	12.000	-20.000	0.000	0.000	18.741	0.000	0.000	0.000
21	0.000	0.000	0.000	0.000	-9.600	0.000	-21.213	16.971	0.000
22	0.000	0.000	15.000	-7.028	5.622	0.000	-10.607	8.485	0.000
23	0.000	0.000	-10.000	0.000	-9.600	0.000	-16.971	13.576	0.000
24	-20.000	0.000	0.000	0.000	-14.400	0.000	0.000	0.000	0.000
25	0.000	0.000	15.000	0.000	7.200	0.000	-10.607	8.485	0.000
26	10.000	0.000	0.000	0.000	0.000	12.494	0.000	0.000	0.000
27	0.000	0.000	-10.000	0.000	0.000	12.494	0.000	0.000	0.000
28	5.000	0.000	0.000	0.000	2.400	0.000	0.000	0.000	0.000
29	15.000	-12.000	0.000	-7.028	5.622	0.000	0.000	0.000	0.000
30	10.000	0.000	0.000	0.000	0.000	12.494	-12.728	10.182	0.000