

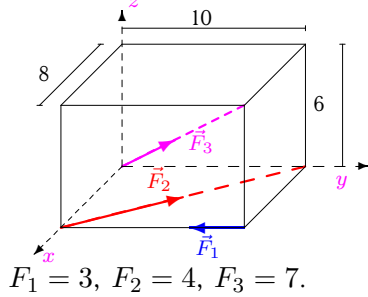
Приведение системы сил

Систему трех сил, приложенных к вершинам параллелепипеда, привести к началу координат. Найти координаты точки пересечения центральной винтовой оси с плоскостью xy . Размеры на рисунках даны в м, силы — в Н.

Кирсанов М.Н. **Решбник. Теоретическая механика**/Под ред. А. И. Кириллова.— М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.111.)

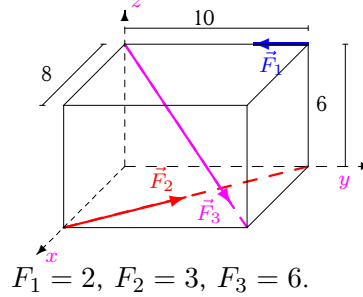
Задача 12.1.

2



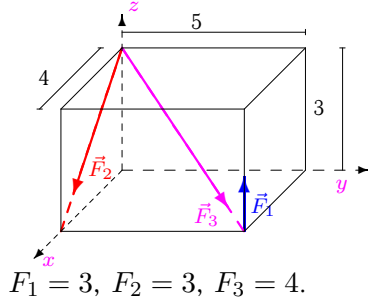
Задача 12.2.

2



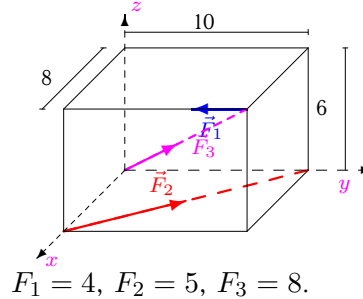
Задача 12.3.

2



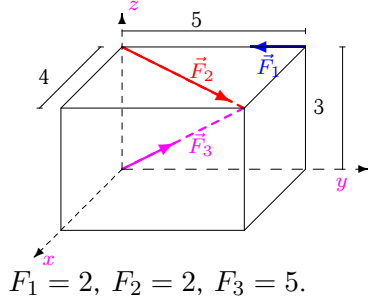
Задача 12.4.

2



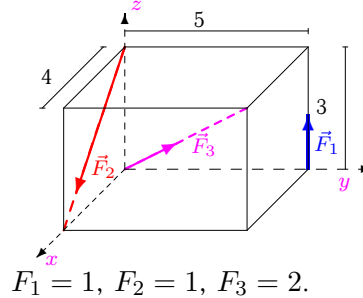
Задача 12.5.

2



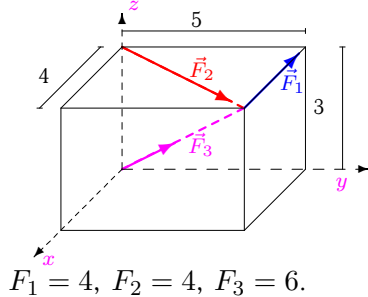
Задача 12.6.

2



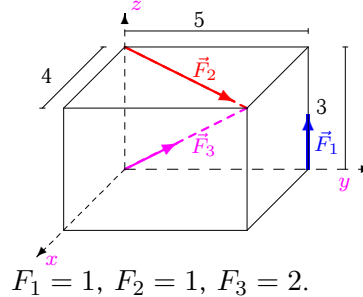
Задача 12.7.

2



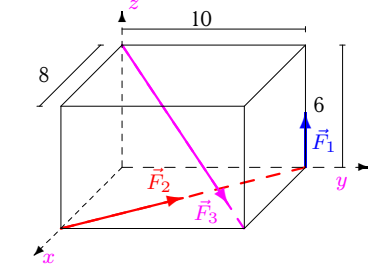
Задача 12.8.

2



Задача 12.9.

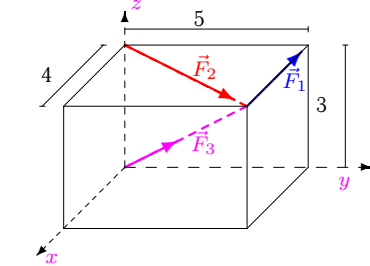
2



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

Задача 12.10.

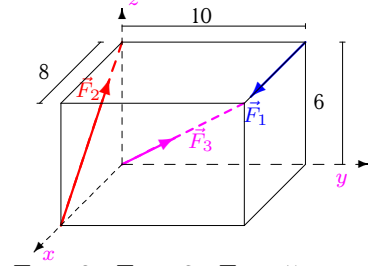
2



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

Задача 12.11.

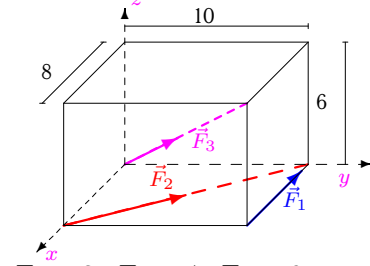
2



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

Задача 12.12.

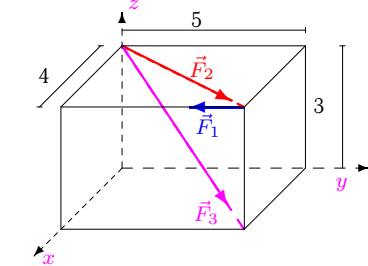
2



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

Задача 12.13.

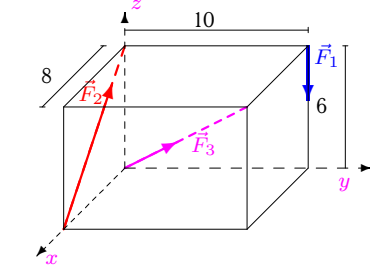
2



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

Задача 12.14.

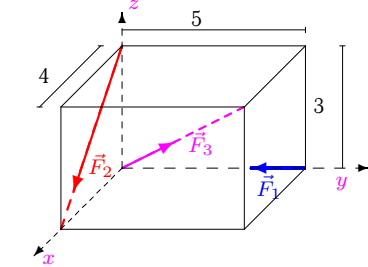
2



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

Задача 12.15.

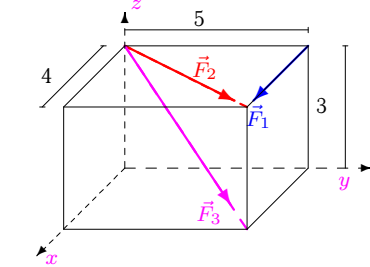
2



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

Задача 12.16.

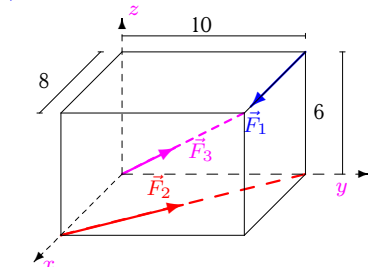
2



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

Задача 12.17.

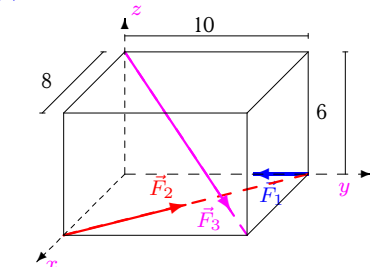
2



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

Задача 12.18.

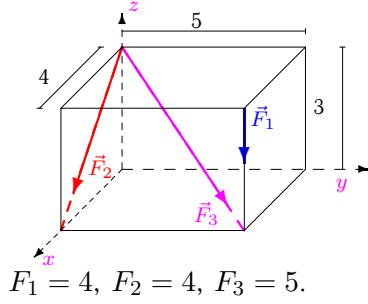
2



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

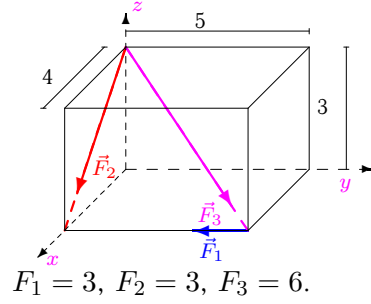
Задача 12.19.

2



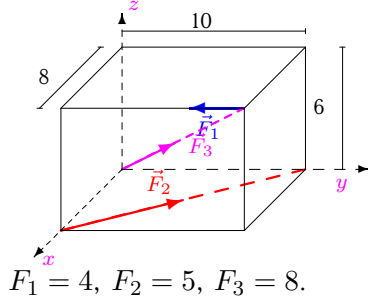
Задача 12.20.

2



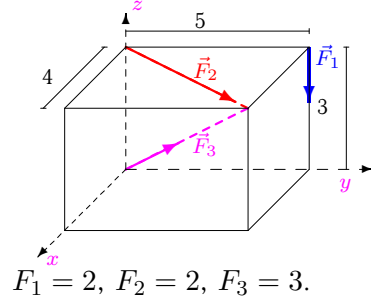
Задача 12.21.

2



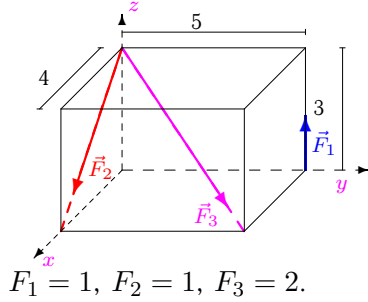
Задача 12.22.

2



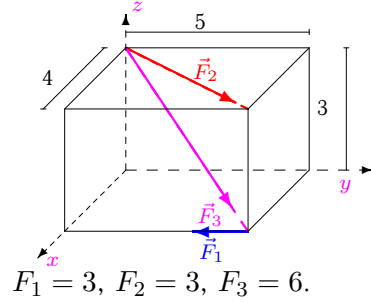
Задача 12.23.

2



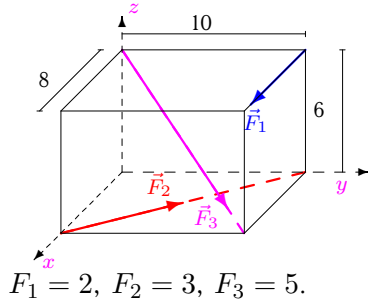
Задача 12.24.

2



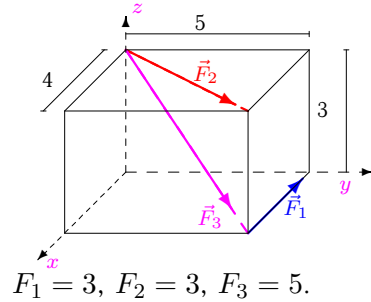
Задача 12.25.

2



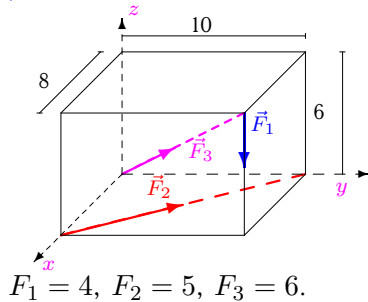
Задача 12.26.

2



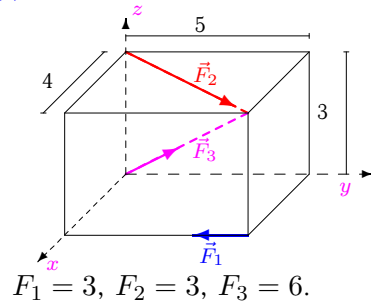
Задача 12.27.

2



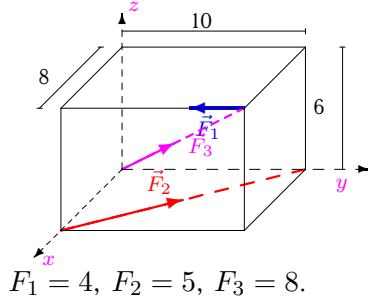
Задача 12.28.

2



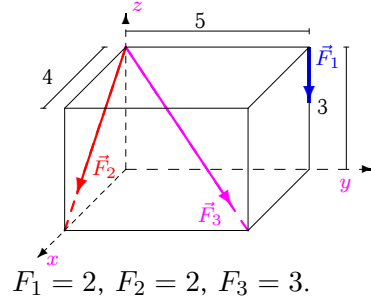
Задача 12.29.

2



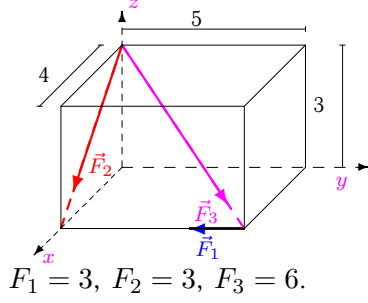
Задача 12.30.

2



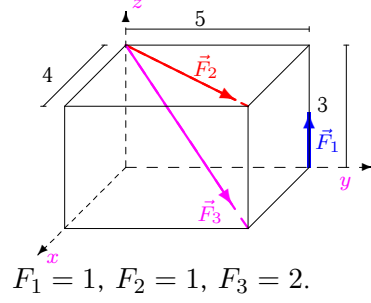
Задача 12.31.

2



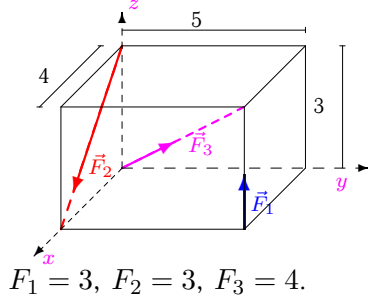
Задача 12.32.

2



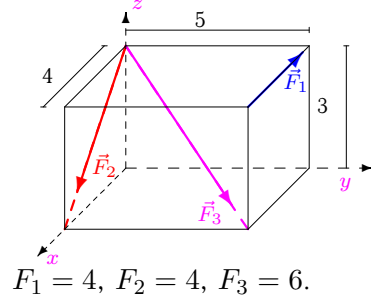
Задача 12.33.

2



Задача 12.34.

2



Приведение системы сил

	R_x	R_y	R_z	R	M_x	M_y	M_z	M	I	M_{min}	x_A	y_A
1	1.461	5.073	2.970	6.057	0.000	0.000	0.988	0.988	2.934	0.484	0.137	-0.039
2	1.520	4.585	-2.546	5.460	-13.456	20.365	18.741	30.773	25.217	4.618	6.477	5.791
3	4.663	2.828	-0.497	5.476	6.515	1.988	0.000	6.811	36.000	6.574	-2.831	-1.845
4	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	31.051	4.659	1.146	6.782
5	4.078	3.097	2.121	5.543	1.315	3.748	0.000	3.972	16.971	3.062	-0.960	-0.442
6	1.931	1.414	1.249	2.700	5.000	2.400	0.000	5.546	13.051	4.834	0.106	1.235
7	1.893	7.366	2.546	8.020	-9.370	-4.504	20.000	22.541	-0.000	-0.000	1.769	-3.681
8	1.756	2.195	1.849	3.364	2.657	1.874	0.000	3.252	8.780	2.610	-0.093	0.701
9	0.448	3.683	-0.273	3.720	-2.728	10.182	12.494	16.347	32.873	8.836	5.257	13.898
10	1.893	7.366	2.546	8.020	-9.370	-4.504	20.000	22.541	-0.000	-0.000	1.769	-3.681
11	2.428	3.536	3.921	5.812	0.000	-2.400	-20.000	20.143	-86.912	-14.955	-1.708	1.594
12	-2.105	7.366	2.546	8.073	0.000	0.000	54.988	54.988	139.976	17.339	6.215	1.776
13	6.459	4.073	-2.970	8.193	-12.220	19.376	-16.000	27.942	47.518	5.800	5.553	5.654
14	-0.137	2.828	1.497	3.203	-20.000	-14.400	0.000	24.645	-37.984	-11.858	2.624	-13.699
15	3.063	1.828	1.097	3.732	0.000	2.400	0.000	2.400	4.388	1.176	-1.663	-0.880
16	5.512	4.390	-1.697	7.248	-13.170	16.536	-10.000	23.386	16.971	2.341	8.909	8.810
17	2.954	5.878	2.121	6.912	0.000	12.000	-1.259	12.066	67.867	9.818	-1.721	-1.978
18	1.579	4.097	-2.121	4.877	-21.213	16.971	12.494	29.901	9.533	1.955	7.226	10.298
19	6.028	3.536	-8.521	11.021	-30.607	34.085	0.000	45.810	-64.000	-5.807	4.219	3.219
20	5.794	1.243	-4.346	7.348	-12.728	17.382	-12.000	24.661	-0.000	-0.000	4.000	2.929
21	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	31.051	4.659	1.146	6.782
22	2.946	3.683	-0.727	4.772	-14.685	3.748	0.000	15.156	-29.464	-6.174	11.706	14.952
23	1.931	1.414	-0.449	2.435	0.757	5.794	0.000	5.843	9.657	3.965	7.785	5.322
24	5.268	3.585	-2.546	6.862	-19.756	15.805	-12.000	28.001	-16.867	-2.458	6.713	7.019
25	2.954	5.878	-2.121	6.912	-21.213	28.971	-1.259	35.929	110.293	15.956	7.261	13.215
26	1.703	5.878	-2.121	6.477	-17.634	14.108	15.000	27.111	21.083	3.255	5.258	8.716
27	0.271	8.147	-1.454	8.280	-40.000	32.000	31.235	59.997	204.450	24.691	5.298	28.057
28	5.268	3.585	2.546	6.862	-7.028	5.622	-12.000	15.000	-47.414	-6.910	-3.627	-0.677
29	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	31.051	4.659	1.146	6.782
30	3.297	2.121	-4.473	5.948	-16.364	9.891	0.000	19.121	-32.971	-5.543	2.653	2.972
31	5.794	1.243	-4.346	7.348	-12.728	17.382	-12.000	24.661	-0.000	-0.000	4.000	2.929
32	1.756	2.195	0.151	2.815	-1.585	5.268	0.000	5.502	8.780	3.119	-18.724	-23.310
33	4.663	2.828	2.897	6.175	15.000	-4.800	0.000	15.749	56.365	9.127	3.100	2.799
34	2.594	4.243	-4.946	7.013	-12.728	7.782	20.000	24.951	-98.912	-14.103	3.299	1.519