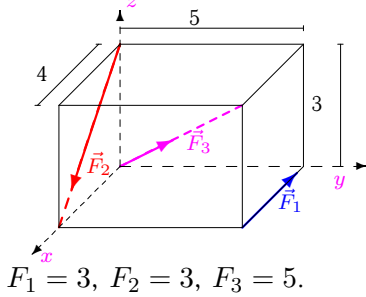


Приведение системы сил

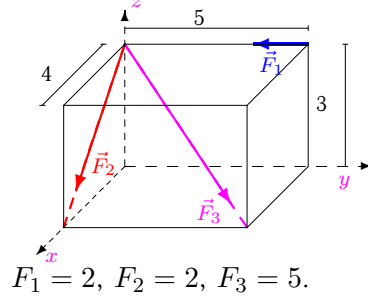
Систему трех сил, приложенных к вершинам параллелепипеда, привести к началу координат. Найти координаты точки пересечения центральной винтовой оси с плоскостью xy . Размеры на рисунках даны в м, силы — в Н.

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

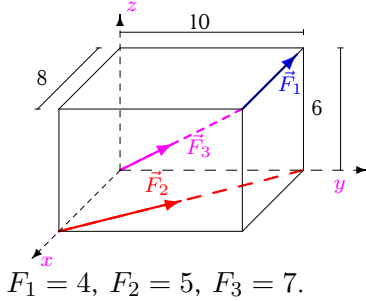
Задача 12.1.



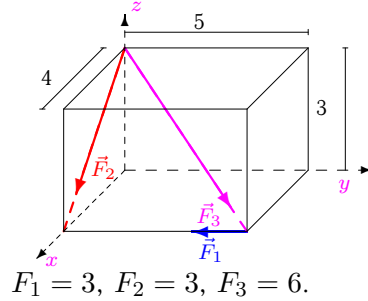
Задача 12.2.



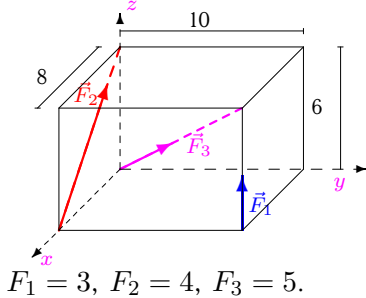
Задача 12.3.



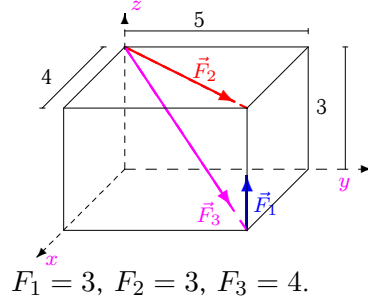
Задача 12.4.



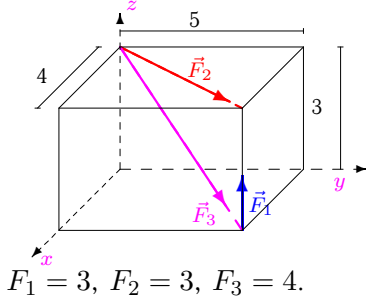
Задача 12.5.



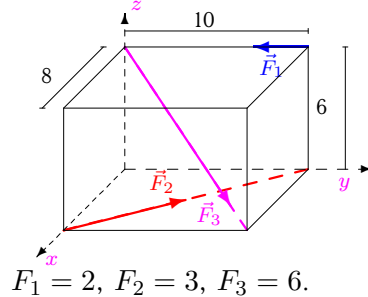
Задача 12.6.



Задача 12.7.

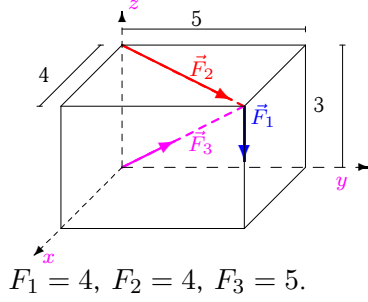


Задача 12.8.



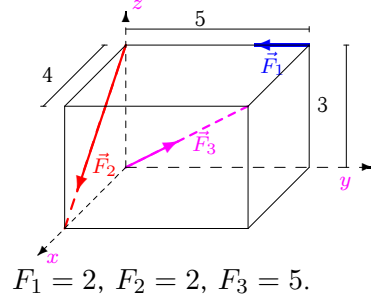
Задача 12.9.

4



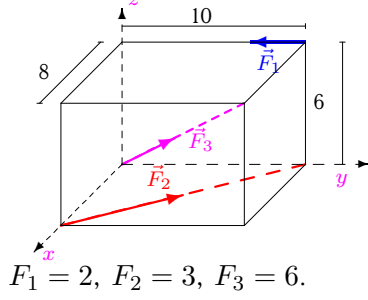
Задача 12.10.

4



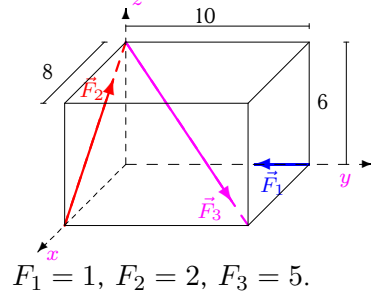
Задача 12.11.

4



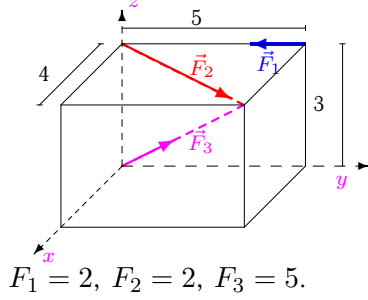
Задача 12.12.

4



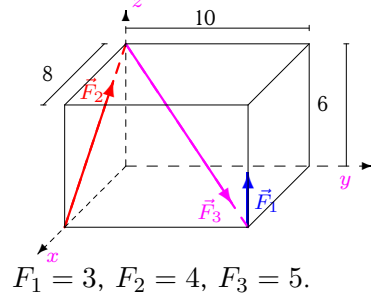
Задача 12.13.

4



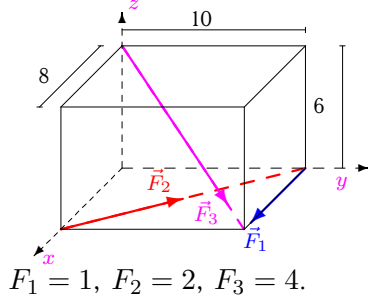
Задача 12.14.

4



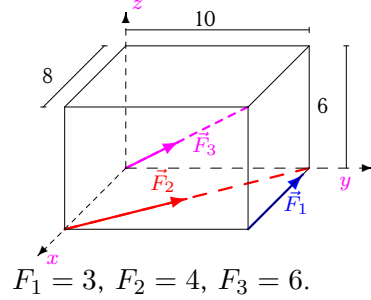
Задача 12.15.

4



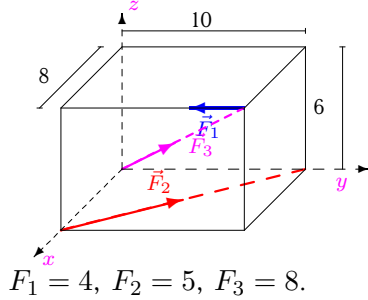
Задача 12.16.

4



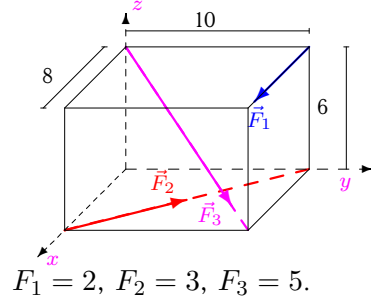
Задача 12.17.

4



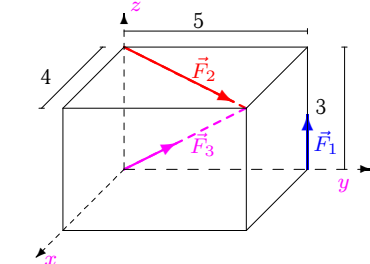
Задача 12.18.

4



Задача 12.19.

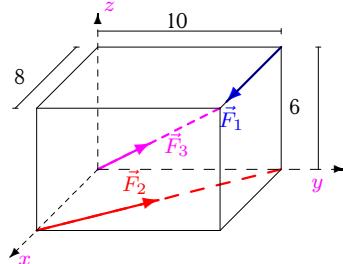
4



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

Задача 12.20.

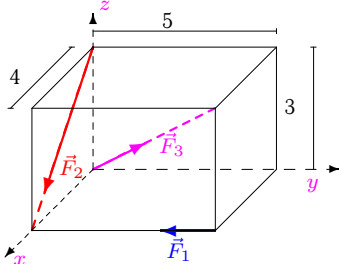
4



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

Задача 12.21.

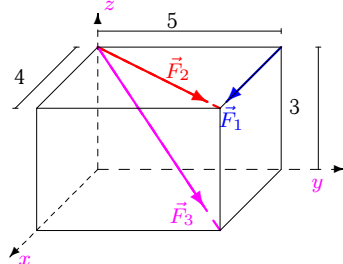
4



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

Задача 12.22.

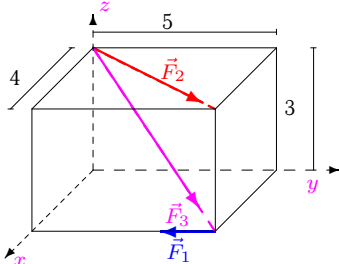
4



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

Задача 12.23.

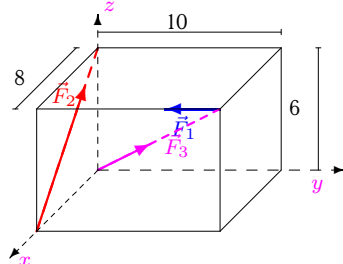
4



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

Задача 12.24.

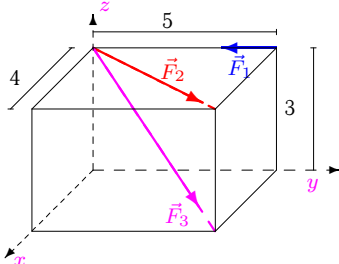
4



$F_1 = 4, F_2 = 5, F_3 = 8.$

Задача 12.25.

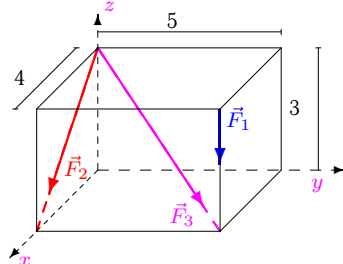
4



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

Задача 12.26.

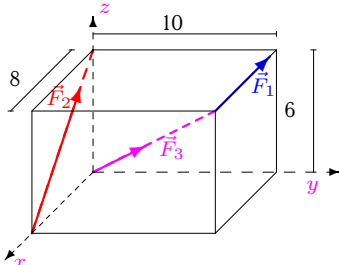
4



$F_1 = 4, F_2 = 4, F_3 = 5.$

Задача 12.27.

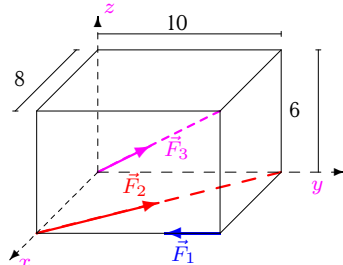
4



$F_1 = 4, F_2 = 5, F_3 = 7.$

Задача 12.28.

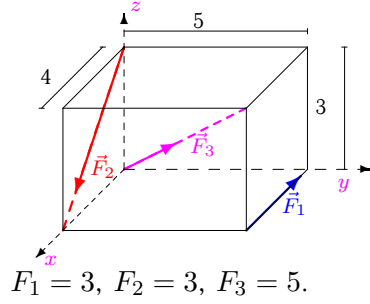
4



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

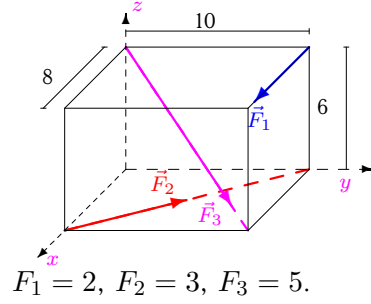
Задача 12.29.

4



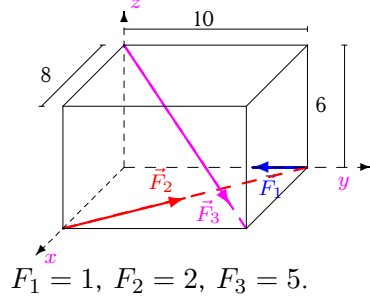
Задача 12.30.

4



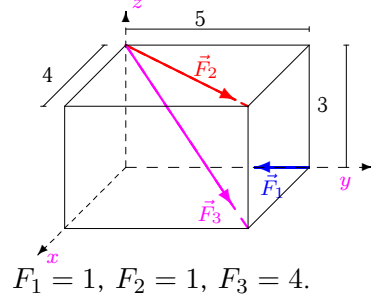
Задача 12.31.

4



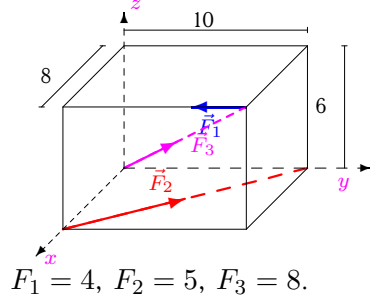
Задача 12.32.

4



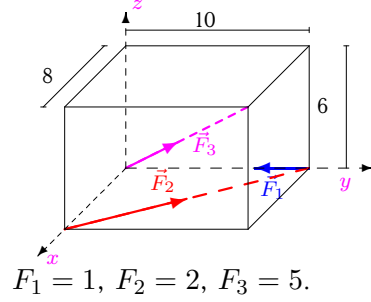
Задача 12.33.

4



Задача 12.34.

4



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	2.228	3.536	0.321	4.192	0.000	7.200	15.000	16.639	30.276	7.223	-3.447	-11.951
2	4.428	1.536	-3.321	5.745	-4.607	13.285	0.000	14.061	0.000	0.000	4.000	1.387
3	-3.164	8.854	2.970	9.860	0.000	-24.000	71.235	75.169	-0.942	-0.096	8.052	-0.010
4	5.794	1.243	-4.346	7.348	-12.728	17.382	-12.000	24.661	-0.000	-0.000	4.000	2.929
5	-0.372	3.536	7.521	8.319	30.000	-43.200	0.000	52.595	-163.882	-19.699	4.631	3.872
6	4.137	5.171	1.303	6.749	-0.513	0.410	0.000	0.657	-0.000	-0.000	-0.315	-0.394
7	4.137	5.171	1.303	6.749	-0.513	0.410	0.000	0.657	-0.000	-0.000	-0.315	-0.394
8	1.520	4.585	-2.546	5.460	-13.456	20.365	18.741	30.773	25.217	4.618	6.477	5.791
9	5.327	6.659	-1.879	8.732	-29.370	23.496	0.000	37.612	0.000	0.000	12.507	15.634
10	4.428	1.536	0.921	4.777	6.000	4.800	0.000	7.684	33.941	7.105	-2.731	-0.637
11	1.520	4.585	2.546	5.460	12.000	0.000	18.741	22.254	65.947	12.077	3.984	3.393
12	1.228	2.536	-0.921	2.964	-21.213	7.371	0.000	22.457	-7.371	-2.486	10.308	21.906
13	4.078	3.097	2.121	5.543	1.315	3.748	0.000	3.972	16.971	3.062	-0.960	-0.442
14	-0.372	3.536	3.279	4.836	8.787	-26.229	0.000	27.662	-96.000	-19.851	3.574	2.215
15	2.013	4.390	-1.697	5.119	-16.971	13.576	2.494	21.876	21.203	4.142	5.907	10.960
16	-2.105	7.366	2.546	8.073	0.000	0.000	54.988	54.988	139.976	17.339	6.215	1.776
17	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	31.051	4.659	1.146	6.782
18	2.954	5.878	-2.121	6.912	-21.213	28.971	-1.259	35.929	110.293	15.956	7.261	13.215
19	1.756	2.195	1.849	3.364	2.657	1.874	0.000	3.252	8.780	2.610	-0.093	0.701
20	2.954	5.878	2.121	6.912	0.000	12.000	-1.259	12.066	67.867	9.818	-1.721	-1.978
21	5.794	1.243	0.746	5.973	0.000	7.200	-12.000	13.994	0.000	0.000	-9.657	-0.000
22	5.512	4.390	-1.697	7.248	-13.170	16.536	-10.000	23.386	16.971	2.341	8.909	8.810
23	5.268	3.585	-2.546	6.862	-19.756	15.805	-12.000	28.001	-16.867	-2.458	6.713	7.019
24	0.525	1.657	6.394	6.626	24.000	-24.000	-32.000	46.648	-231.765	-34.977	2.386	4.187
25	4.078	3.097	-2.121	5.543	-9.292	12.233	0.000	15.362	-0.000	-0.000	5.767	4.380
26	6.028	3.536	-8.521	11.021	-30.607	34.085	0.000	45.810	-64.000	-5.807	4.219	3.219
27	-4.040	4.950	5.970	8.744	0.000	-48.000	40.000	62.482	1.206	0.138	8.053	0.011
28	1.461	5.073	2.970	6.057	0.000	0.000	0.988	0.988	2.934	0.484	0.137	-0.039
29	2.228	3.536	0.321	4.192	0.000	7.200	15.000	16.639	30.276	7.223	-3.447	-11.951
30	2.954	5.878	-2.121	6.912	-21.213	28.971	-1.259	35.929	110.293	15.956	7.261	13.215
31	1.579	4.097	-2.121	4.877	-21.213	16.971	12.494	29.901	9.533	1.955	7.226	10.298
32	2.887	2.609	-1.697	4.246	-10.828	8.662	0.000	13.866	-8.662	-2.040	5.843	5.563
33	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	31.051	4.659	1.146	6.782
34	1.579	4.097	2.121	4.877	0.000	0.000	12.494	12.494	26.504	5.435	2.153	-0.830