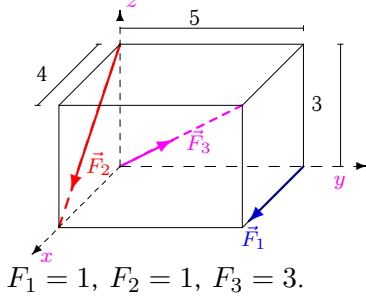


Приведение системы сил

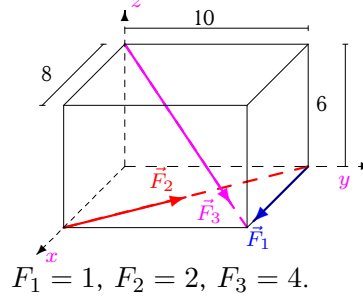
Систему трех сил, приложенных к вершинам параллелепипеда, привести к началу координат. Найти координаты точки пересечения центральной винтовой оси с плоскостью xy . Размеры на рисунках даны в м, силы — в Н.

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

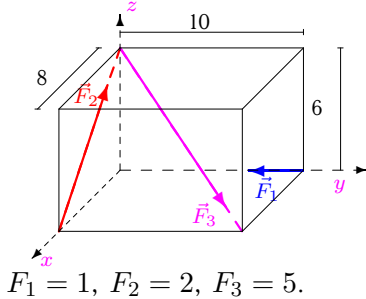
Задача 12.1.



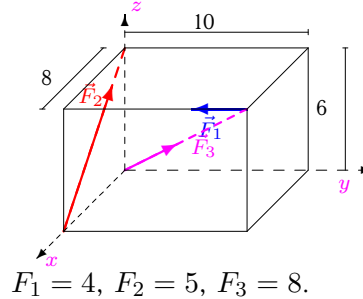
Задача 12.2.



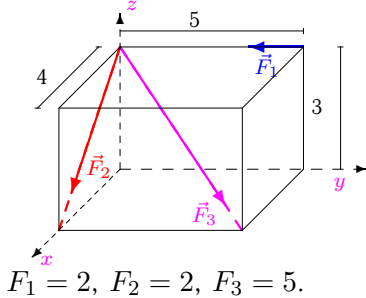
Задача 12.3.



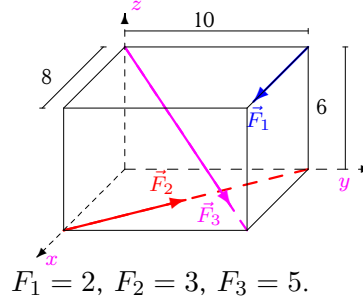
Задача 12.4.



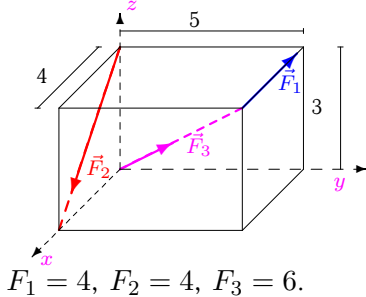
Задача 12.5.



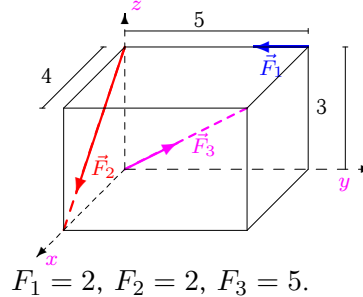
Задача 12.6.



Задача 12.7.

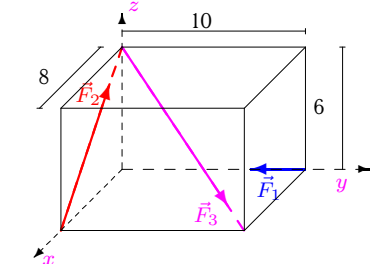


Задача 12.8.



Задача 12.9.

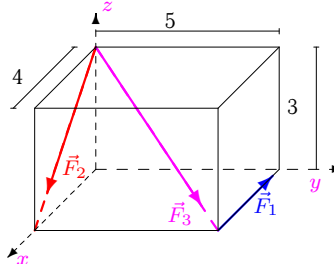
1



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

Задача 12.10.

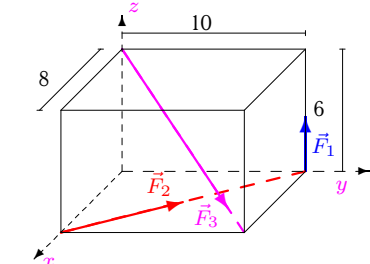
1



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

Задача 12.11.

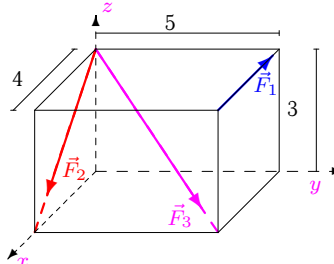
1



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

Задача 12.12.

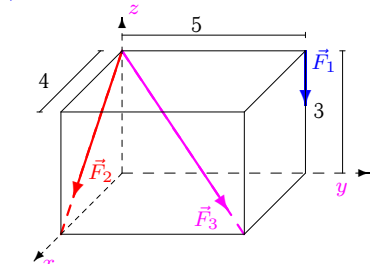
1



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

Задача 12.13.

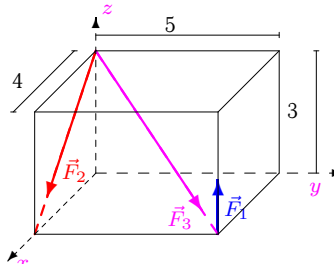
1



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

Задача 12.14.

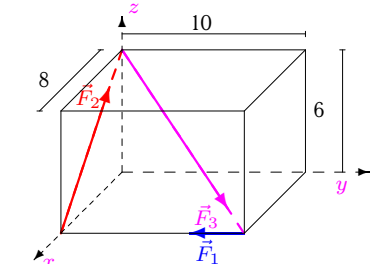
1



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

Задача 12.15.

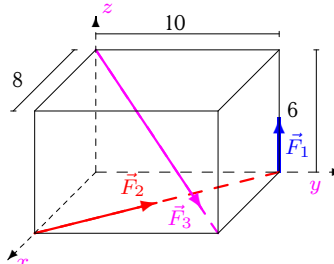
1



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

Задача 12.16.

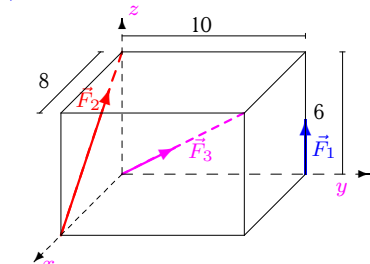
1



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

Задача 12.17.

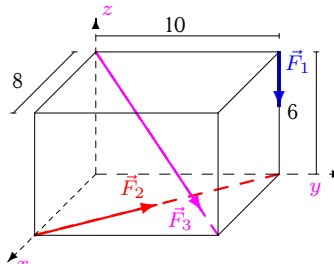
1



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

Задача 12.18.

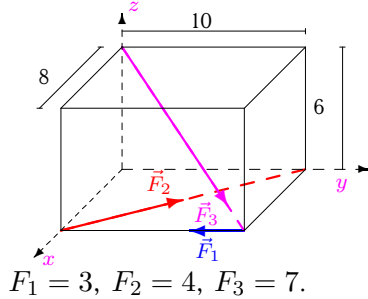
1



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

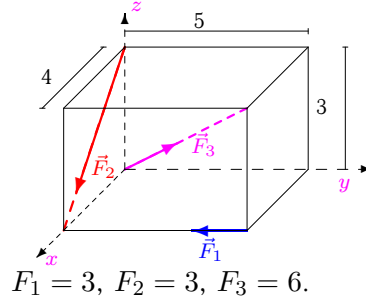
Задача 12.19.

1



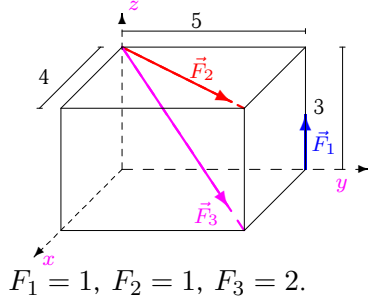
Задача 12.20.

1



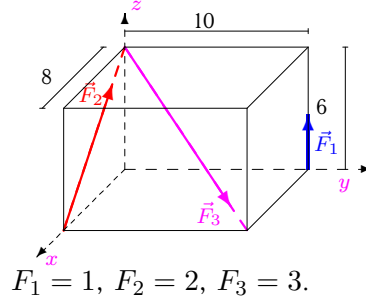
Задача 12.21.

1



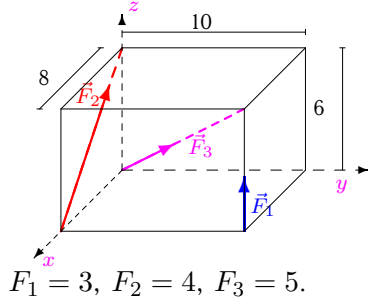
Задача 12.22.

1



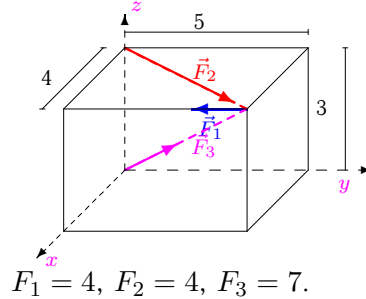
Задача 12.23.

1



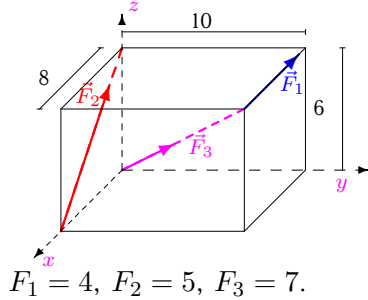
Задача 12.24.

1



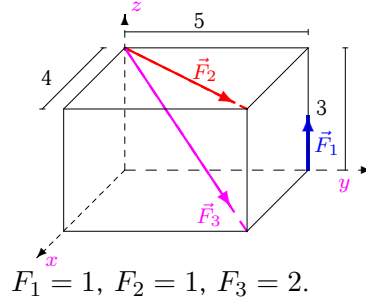
Задача 12.25.

1



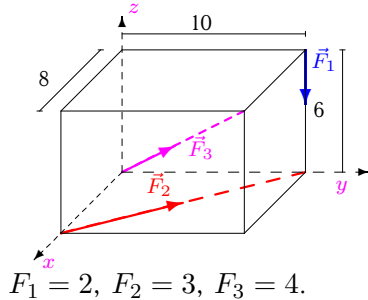
Задача 12.26.

1



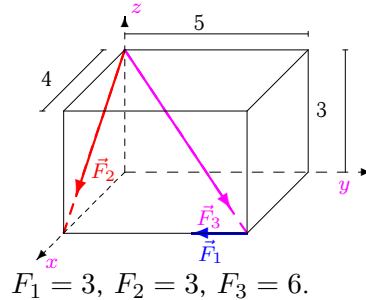
Задача 12.27.

1



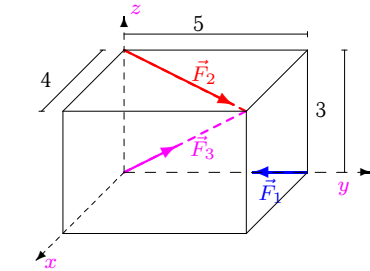
Задача 12.28.

1



Задача 12.29.

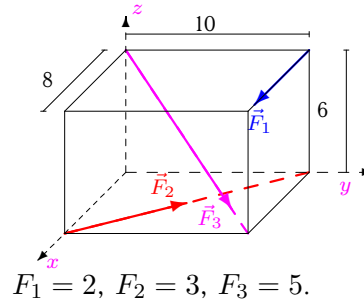
1



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

Задача 12.30.

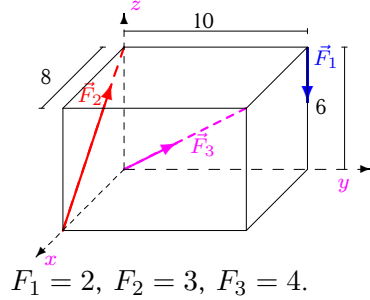
1



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

Задача 12.31.

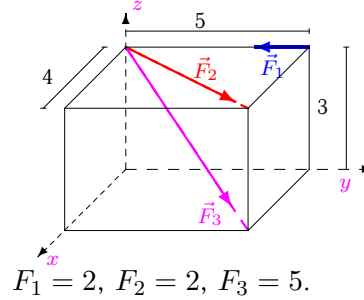
1



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

Задача 12.32.

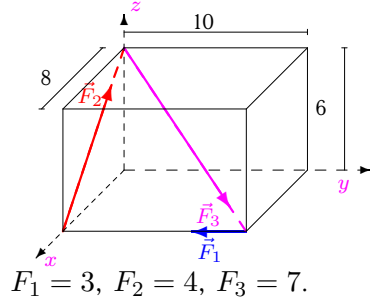
1



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

Задача 12.33.

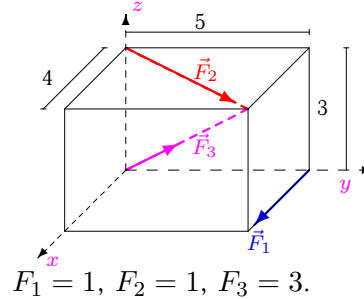
1



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

Задача 12.34.

1



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

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	3.497	2.121	0.673	4.145	0.000	2.400	-5.000	5.546	1.727	0.417	-3.250	-0.523
2	2.013	4.390	-1.697	5.119	-16.971	13.576	2.494	21.876	21.203	4.142	5.907	10.960
3	1.228	2.536	-0.921	2.964	-21.213	7.371	0.000	22.457	-7.371	-2.486	10.308	21.906
4	0.525	1.657	6.394	6.626	24.000	-24.000	-32.000	46.648	-231.765	-34.977	2.386	4.187
5	4.428	1.536	-3.321	5.745	-4.607	13.285	0.000	14.061	0.000	0.000	4.000	1.387
6	2.954	5.878	-2.121	6.912	-21.213	28.971	-1.259	35.929	110.293	15.956	7.261	13.215
7	2.594	4.243	0.146	4.975	0.000	-2.400	20.000	20.143	-7.271	-1.461	7.925	5.234
8	4.428	1.536	0.921	4.777	6.000	4.800	0.000	7.684	33.941	7.105	-2.731	-0.637
9	1.228	2.536	-0.921	2.964	-21.213	7.371	0.000	22.457	-7.371	-2.486	10.308	21.906
10	2.228	3.536	-3.921	5.731	-10.607	15.685	15.000	24.156	-27.000	-4.711	4.741	2.238
11	0.448	3.683	-0.273	3.720	-2.728	10.182	12.494	16.347	32.873	8.836	5.257	13.898
12	2.594	4.243	-4.946	7.013	-12.728	7.782	20.000	24.951	-98.912	-14.103	3.299	1.519
13	3.297	2.121	-4.473	5.948	-16.364	9.891	0.000	19.121	-32.971	-5.543	2.653	2.972
14	4.663	2.828	-0.497	5.476	6.515	1.988	0.000	6.811	36.000	6.574	-2.831	-1.845
15	0.760	1.950	-0.570	2.169	-29.698	4.559	-24.000	38.455	-0.000	-0.000	8.000	52.116
16	0.448	3.683	-0.273	3.720	-2.728	10.182	12.494	16.347	32.873	8.836	5.257	13.898
17	0.097	2.121	3.473	4.071	10.000	-9.600	0.000	13.862	-19.394	-4.764	2.049	2.912
18	0.389	5.171	-3.697	6.369	-36.971	13.576	18.741	43.616	-13.451	-2.112	4.136	9.965
19	1.461	5.073	-2.970	6.057	-29.698	23.759	0.988	38.045	74.210	12.251	4.545	10.995
20	5.794	1.243	0.746	5.973	0.000	7.200	-12.000	13.994	0.000	0.000	-9.657	-0.000
21	1.756	2.195	0.151	2.815	-1.585	5.268	0.000	5.502	8.780	3.119	-18.724	-23.310
22	0.097	2.121	0.927	2.317	-2.728	0.582	0.000	2.789	0.971	0.419	-0.214	-2.961
23	-0.372	3.536	7.521	8.319	30.000	-43.200	0.000	52.595	-163.882	-19.699	4.631	3.872
24	6.459	4.073	2.970	8.193	2.630	7.496	-16.000	17.864	-0.000	-0.000	-2.524	0.885
25	-4.040	4.950	5.970	8.744	0.000	-48.000	40.000	62.482	1.206	0.138	8.053	0.011
26	1.756	2.195	0.151	2.815	-1.585	5.268	0.000	5.502	8.780	3.119	-18.724	-23.310
27	0.389	5.171	-0.303	5.194	-20.000	0.000	18.741	27.408	-13.451	-2.589	8.509	65.379
28	5.794	1.243	-4.346	7.348	-12.728	17.382	-12.000	24.661	-0.000	-0.000	4.000	2.929
29	2.887	2.609	1.697	4.246	-2.343	1.874	0.000	3.000	-1.874	-0.441	-1.264	-1.204
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	-0.137	2.828	1.497	3.203	-20.000	-14.400	0.000	24.645	-37.984	-11.858	2.624	-13.699
32	4.078	3.097	-2.121	5.543	-9.292	12.233	0.000	15.362	-0.000	-0.000	5.767	4.380
33	0.760	1.950	-0.570	2.169	-29.698	4.559	-24.000	38.455	-0.000	-0.000	8.000	52.116
34	3.322	2.902	1.273	4.591	-2.343	1.874	-5.000	5.831	-8.707	-1.896	-2.414	-0.762