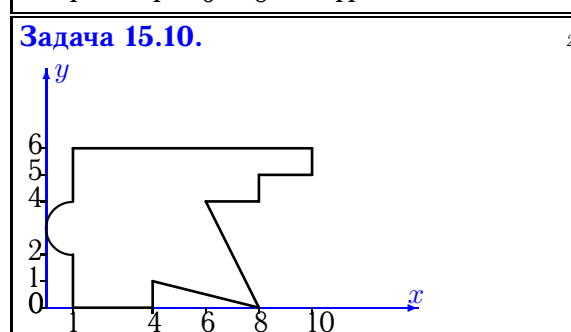
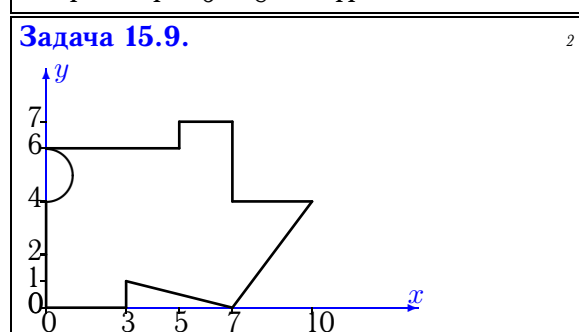
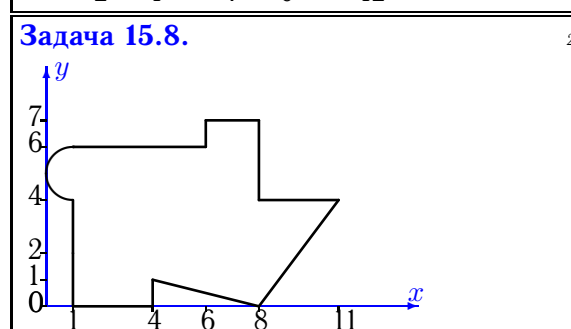
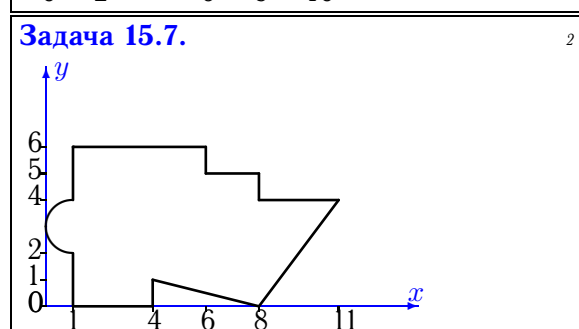
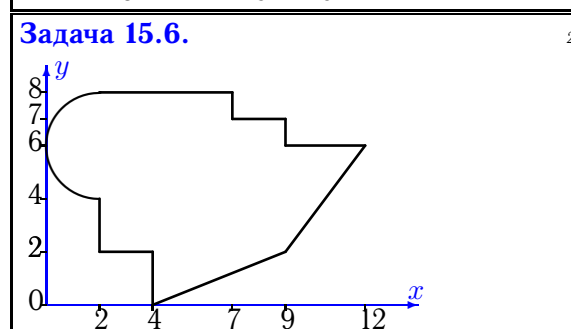
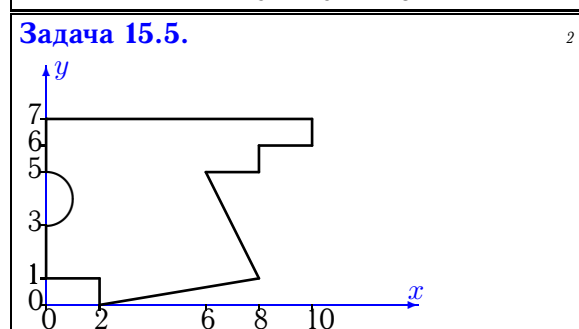
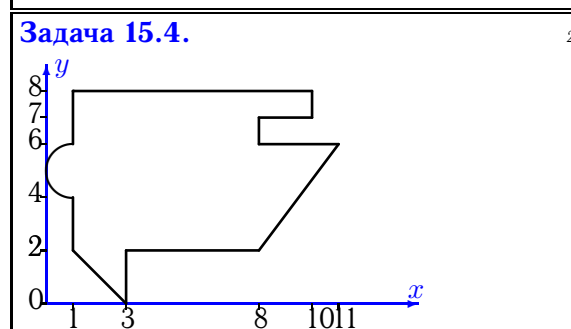
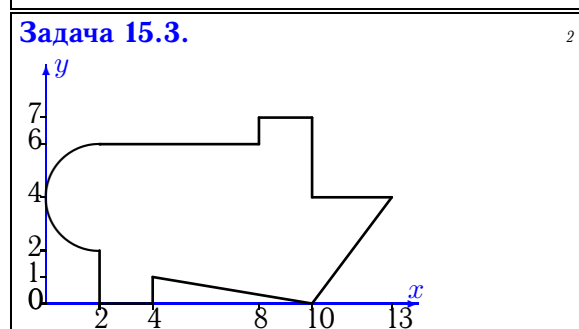
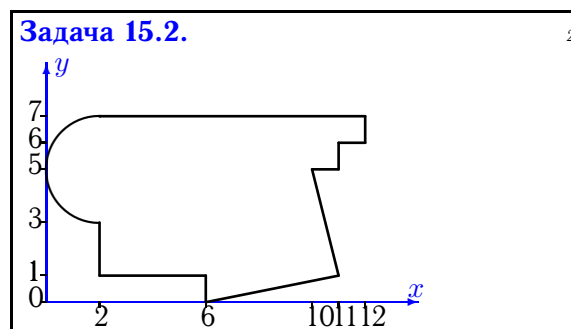
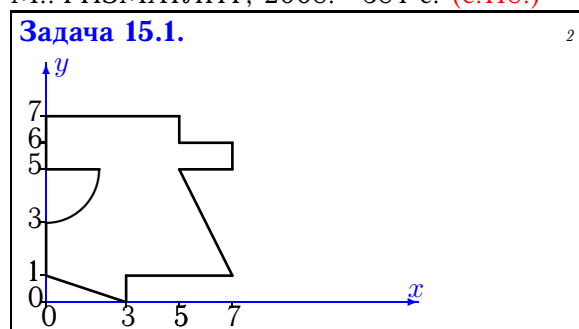


## Геометрические характеристики плоской фигуры

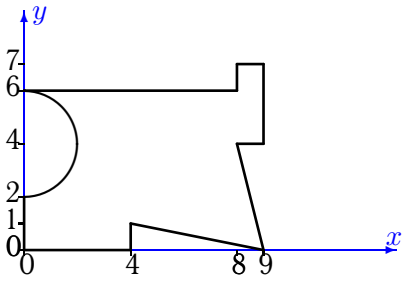
Найти главные моменты инерции (в  $\text{см}^4$ ) плоской фигуры. Отметки на осях даны в сантиметрах. Криволинейный участок контура является дугой половины или четверти окружности.

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008.– 384 с. (с.118.)



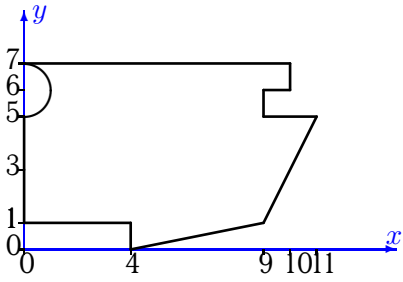
Задача 15.11.

2



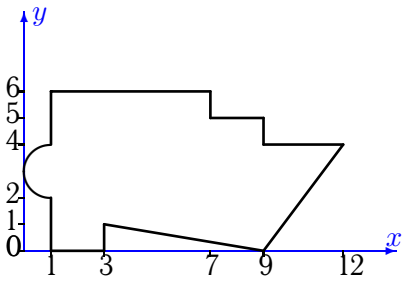
Задача 15.13.

2



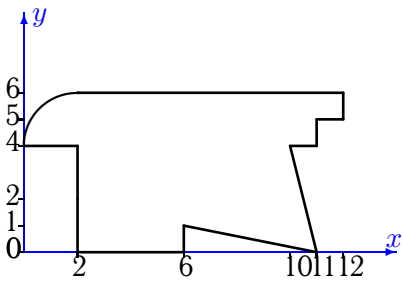
Задача 15.15.

2



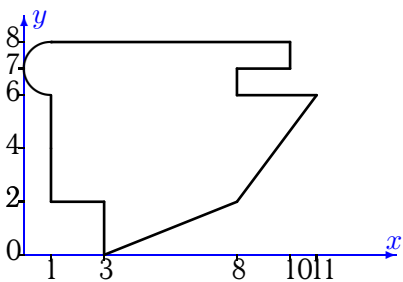
Задача 15.17.

2



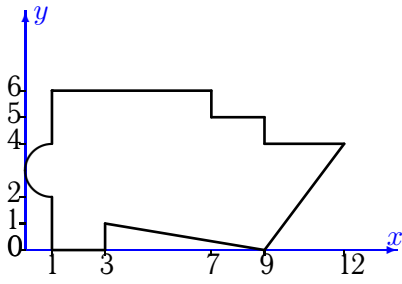
Задача 15.19.

2



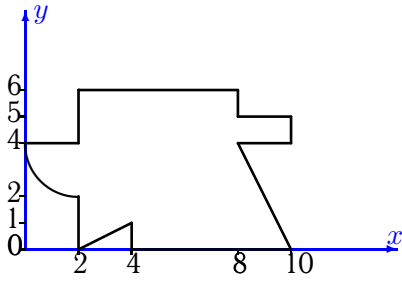
Задача 15.12.

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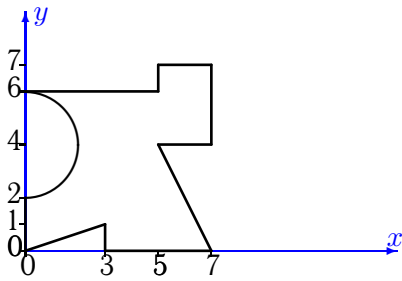
Задача 15.14.

2



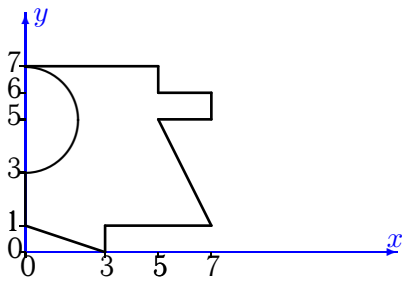
Задача 15.16.

2



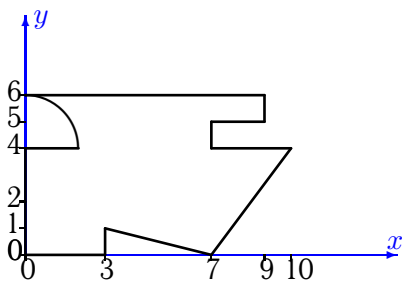
Задача 15.18.

2



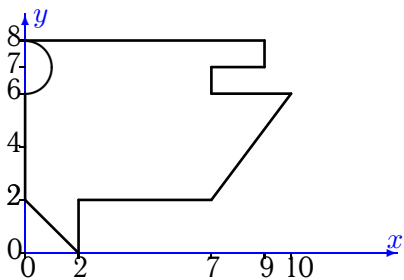
Задача 15.20.

2



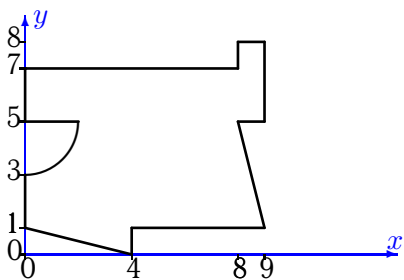
Задача 15.21.

2



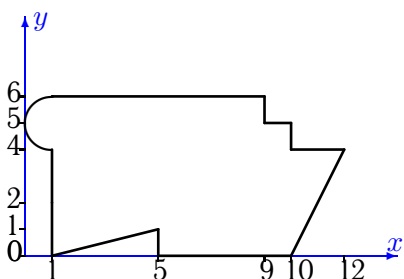
Задача 15.23.

2



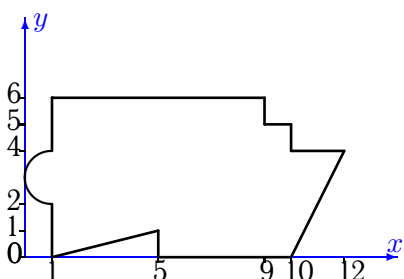
Задача 15.25.

2



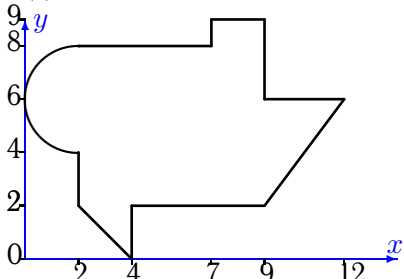
Задача 15.27.

2



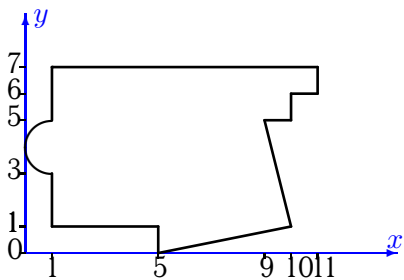
Задача 15.29.

2



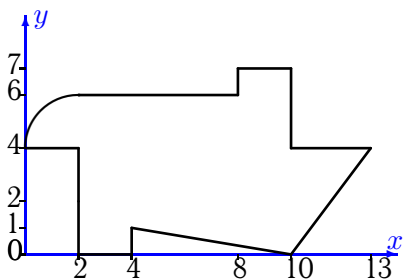
Задача 15.22.

2



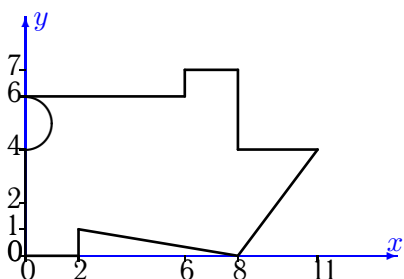
Задача 15.24.

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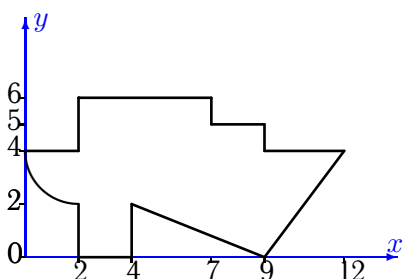
Задача 15.26.

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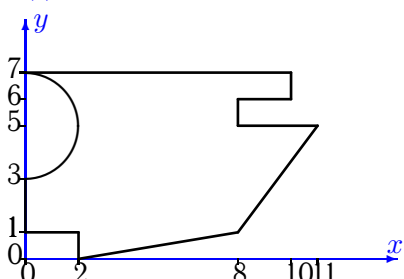
Задача 15.28.

2



Задача 15.30.

2



### Геометрические характеристики плоской фигуры

№	$A$	$x_c$	$y_c$	$I_x$	$I_y$	$I_{xy}$	$I_{max}$	$I_{min}$	$\alpha$
1	34.358	3.202	3.734	122.701	103.438	-2.191	122.947	103.192	83.592
2	61.783	5.949	4.018	206.796	524.405	-26.868	526.662	204.539	4.801
3	59.283	6.093	3.325	159.461	570.631	-18.766	571.486	158.606	2.608
4	53.571	4.976	4.919	172.042	359.161	33.230	364.887	166.316	-9.777
5	47.429	4.048	3.923	185.491	247.031	31.010	259.946	172.575	-22.611
6	57.283	5.422	4.667	193.898	410.150	-49.985	421.145	182.903	12.405
7	45.571	4.811	2.963	105.332	299.563	-14.315	300.612	104.282	4.193
8	49.571	4.988	3.272	145.346	318.518	-3.732	318.598	145.266	1.234
9	46.429	4.257	3.155	134.543	264.399	19.382	267.230	131.712	-8.311
10	39.571	4.243	3.295	117.286	198.191	34.830	211.119	104.358	-20.365
11	44.217	4.855	3.103	141.382	247.789	46.451	265.214	123.957	-20.562
12	50.571	5.337	3.020	116.206	409.444	-22.837	411.211	114.438	4.427
13	59.929	5.084	3.828	191.801	457.500	15.947	458.454	190.847	-3.422
14	44.142	5.277	2.988	121.110	236.354	-19.779	239.654	117.810	9.473
15	50.571	5.337	3.020	116.206	409.444	-22.837	411.211	114.438	4.427
16	32.217	3.890	3.188	122.214	96.715	30.338	142.373	76.556	-56.397
17	53.642	6.070	3.292	155.472	428.726	-0.456	428.727	155.471	0.096
18	31.217	3.438	3.521	106.357	83.421	15.277	113.992	75.786	-63.447
19	56.571	5.042	4.784	217.048	351.925	8.114	352.411	216.562	-3.430
20	44.858	4.451	3.056	118.575	270.467	33.427	277.498	111.544	-11.878
21	50.429	4.224	4.852	164.216	305.617	46.239	319.395	150.438	-16.593
22	57.071	5.357	3.909	194.175	398.662	5.387	398.804	194.033	-1.508
23	51.858	4.567	3.943	193.546	311.259	30.670	318.770	186.035	-13.762
24	56.142	6.370	3.335	158.482	488.725	-21.357	490.101	157.107	3.685
25	56.571	5.723	3.082	151.628	482.979	-42.504	488.344	146.263	7.194
26	51.429	4.809	3.192	144.601	367.798	16.756	369.049	143.350	-4.269
27	56.571	5.723	3.027	145.686	482.979	-26.334	485.023	143.643	4.438
28	44.142	5.670	3.116	91.351	334.767	-19.370	336.299	89.819	4.521
29	58.283	5.506	5.068	196.299	439.584	-1.181	439.589	196.293	0.278
30	52.717	5.134	3.748	180.253	333.686	52.367	349.855	164.084	-17.159