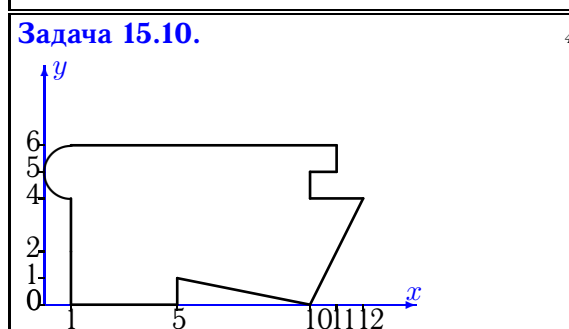
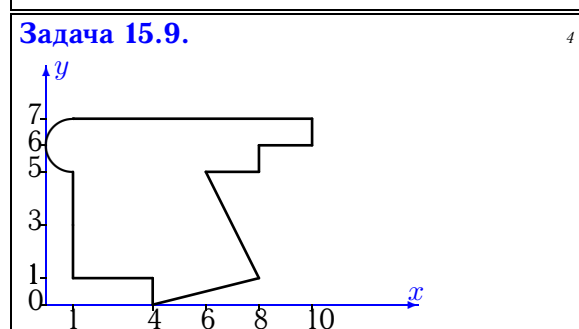
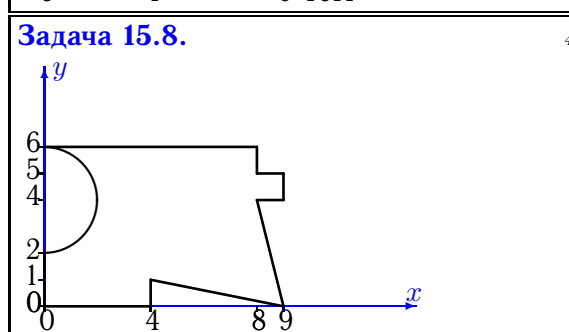
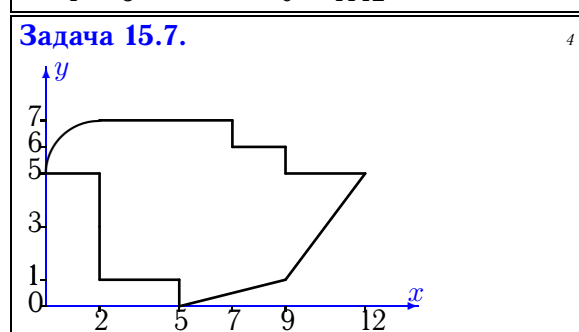
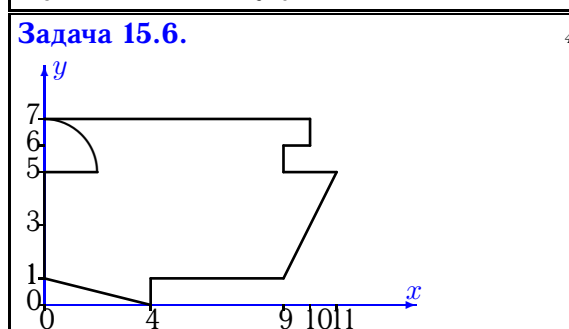
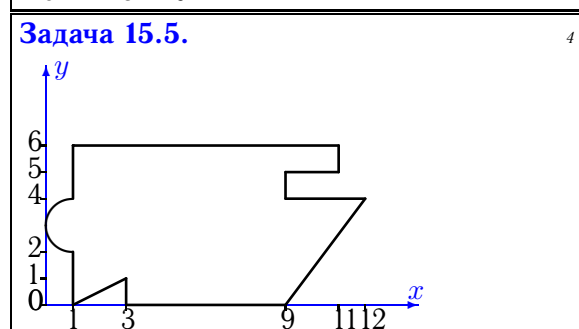
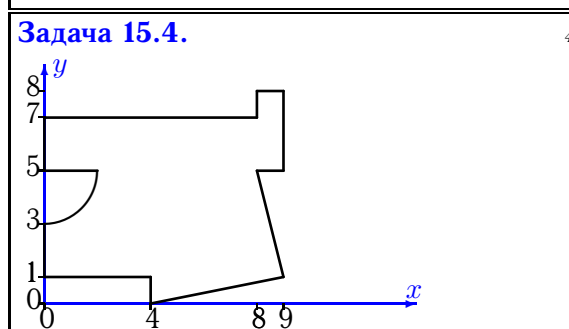
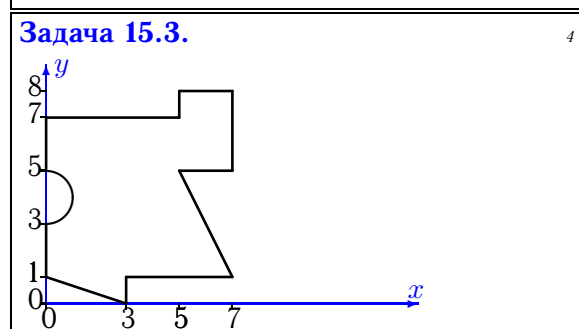
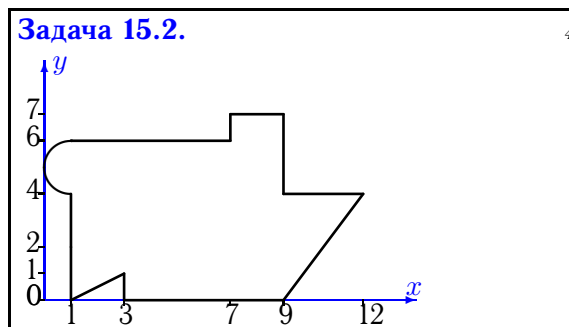
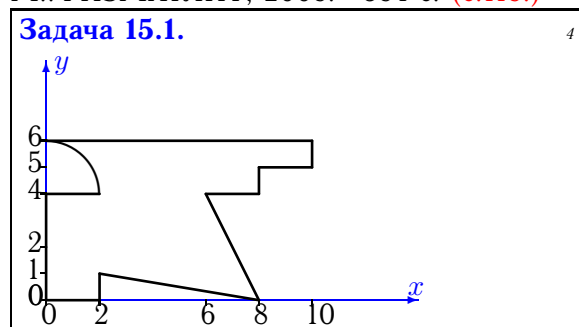


## Геометрические характеристики плоской фигуры

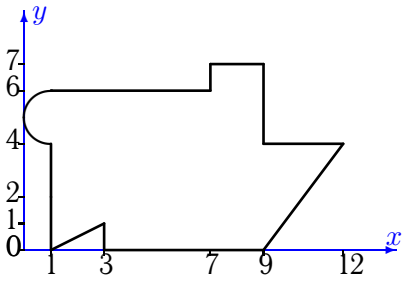
Найти главные моменты инерции (в  $\text{см}^4$ ) плоской фигуры. Отметки на осях даны в сантиметрах. Криволинейный участок контура является дугой половины или четверти окружности.

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



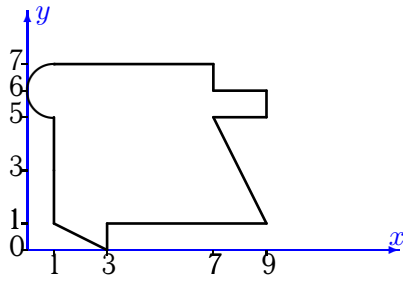
Задача 15.11.

4



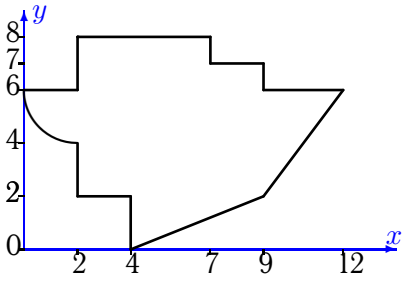
Задача 15.12.

4



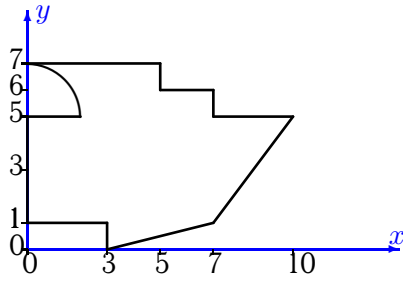
Задача 15.13.

4



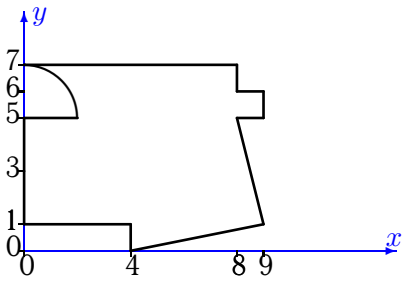
Задача 15.14.

4



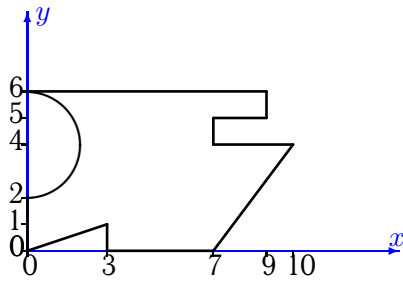
Задача 15.15.

4



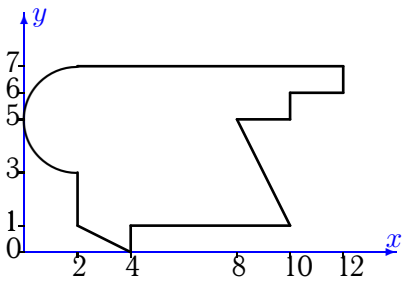
Задача 15.16.

4



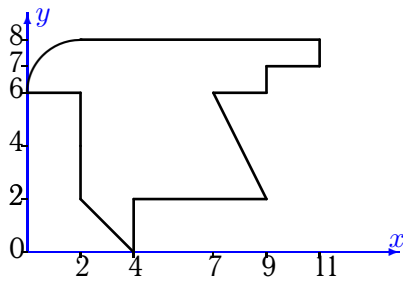
Задача 15.17.

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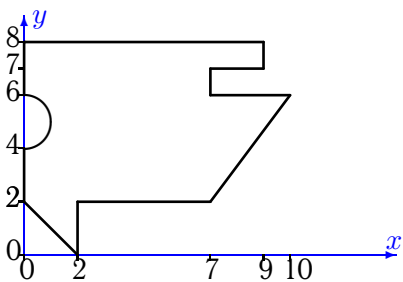
Задача 15.18.

4



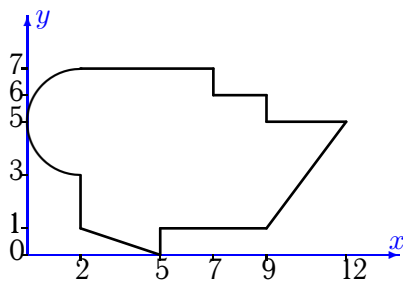
Задача 15.19.

4



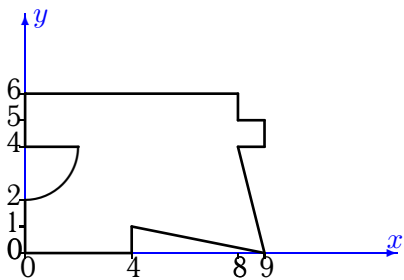
Задача 15.20.

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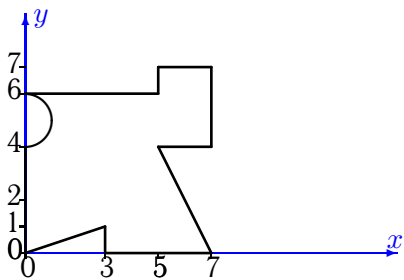
Задача 15.21.

4



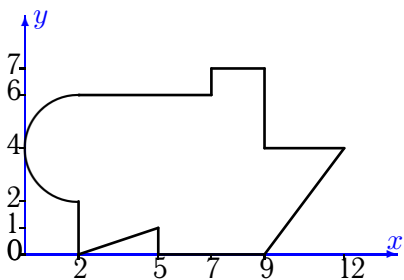
Задача 15.22.

4



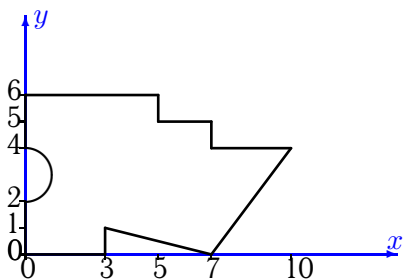
Задача 15.23.

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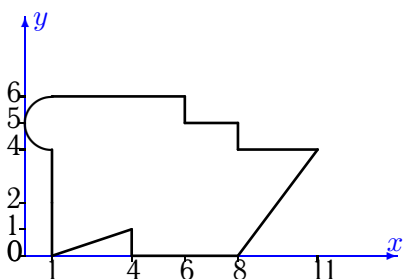
Задача 15.24.

4



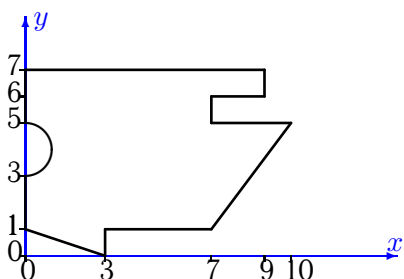
Задача 15.25.

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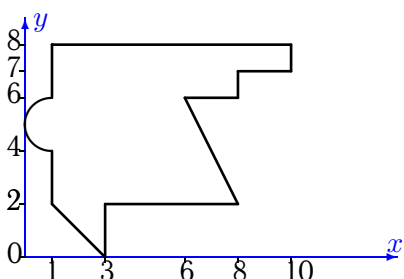
Задача 15.26.

4



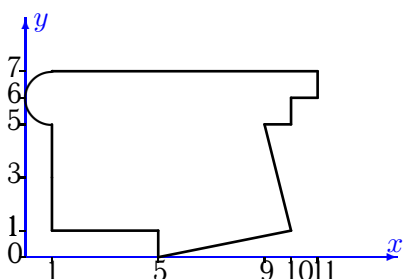
Задача 15.27.

4



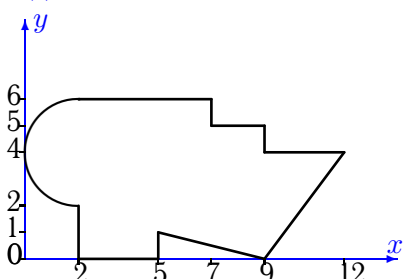
Задача 15.28.

4



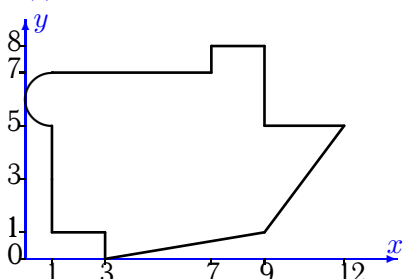
Задача 15.29.

4



Задача 15.30.

4



### Геометрические характеристики плоской фигуры

№	$A$	$x_c$	$y_c$	$I_x$	$I_y$	$I_{xy}$	$I_{max}$	$I_{min}$	$\alpha$
1	39.858	4.165	3.214	117.727	222.178	47.995	240.882	99.022	-21.292
2	56.571	5.561	3.191	172.111	433.410	-14.126	434.171	171.349	3.085
3	39.929	3.406	4.083	162.746	140.471	29.855	183.473	119.744	-55.229
4	52.358	4.692	3.911	198.889	307.936	9.987	308.843	197.982	-5.190
5	56.571	5.631	3.100	155.325	460.642	6.256	460.770	155.197	-1.173
6	57.858	5.078	3.805	180.840	443.629	46.512	451.618	172.850	-9.747
7	51.142	5.696	3.846	152.076	344.336	-48.292	355.784	140.628	13.337
8	42.217	4.682	2.966	123.134	219.790	24.330	225.568	117.355	-13.361
9	43.571	4.343	4.064	163.495	206.064	9.945	208.273	161.286	-12.522
10	58.071	5.759	3.189	159.018	524.694	-3.683	524.731	158.981	0.577
11	56.571	5.561	3.191	172.111	433.410	-14.126	434.171	171.349	3.085
12	44.571	4.350	3.913	144.842	211.388	-17.239	215.589	140.641	13.695
13	54.142	5.669	4.541	177.203	348.656	-19.285	350.798	175.061	6.339
14	44.858	4.213	3.566	121.595	240.219	4.720	240.407	121.408	-2.275
15	50.358	4.541	3.683	164.899	277.616	5.747	277.908	164.607	-2.911
16	42.217	4.801	3.017	121.338	215.709	25.101	221.970	115.077	-14.005
17	53.283	5.316	4.174	174.782	393.191	15.054	394.223	173.750	-3.924
18	45.142	5.050	5.107	173.104	240.638	20.003	246.118	167.624	-15.321
19	50.429	4.224	4.914	171.235	305.617	34.303	313.867	162.985	-13.523
20	53.783	5.359	3.894	148.042	406.477	-40.255	412.602	141.917	8.652
21	45.358	4.417	3.096	134.381	263.635	2.959	263.702	134.314	-1.311
22	36.929	3.520	3.249	126.953	132.558	25.518	155.427	104.084	-41.866
23	54.783	5.626	3.279	154.219	424.752	-24.882	427.021	151.950	5.211
24	42.429	4.093	2.961	104.542	249.774	-13.845	251.082	103.234	5.397
25	46.071	4.893	3.003	115.259	295.910	-38.009	303.582	107.587	11.411
26	49.929	4.273	3.960	160.944	296.511	24.420	300.776	156.679	-9.906
27	43.571	4.206	4.977	162.370	210.023	42.539	234.954	137.439	-30.373
28	57.071	5.357	3.965	200.854	398.662	-9.635	399.130	200.386	2.782
29	50.283	5.361	3.092	117.143	399.280	-41.516	405.262	111.160	8.199
30	60.571	5.480	3.969	214.786	450.593	0.492	450.594	214.785	-0.119