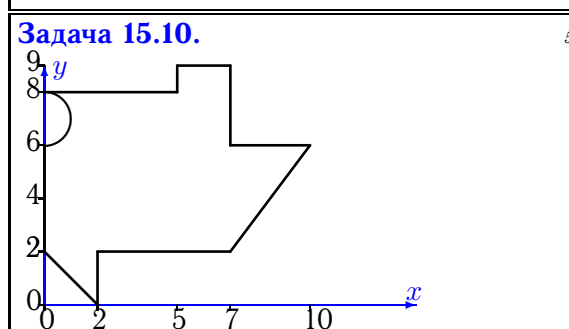
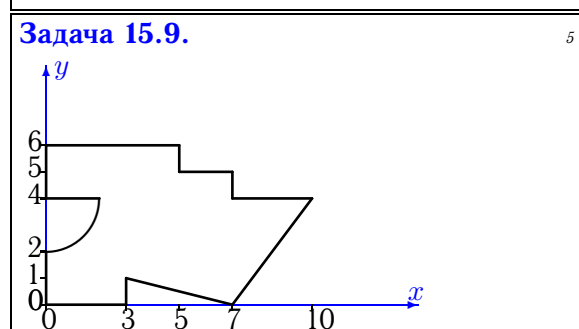
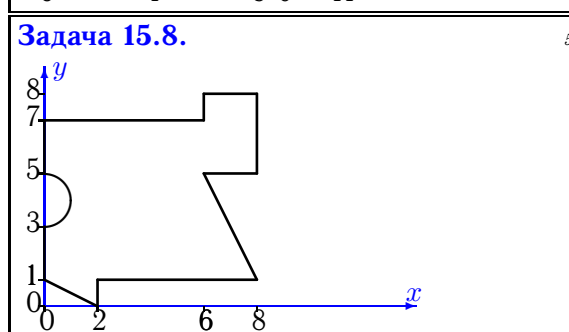
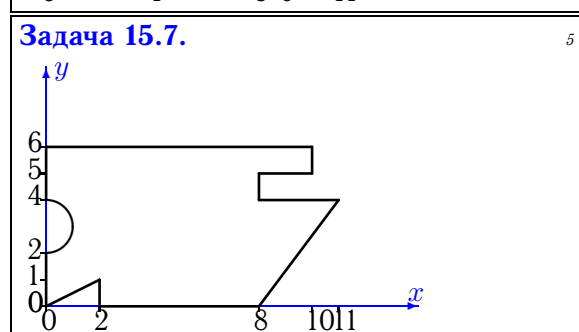
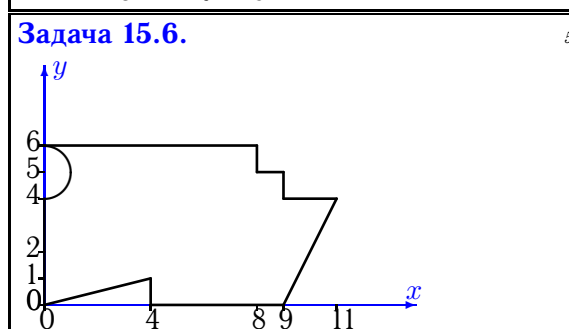
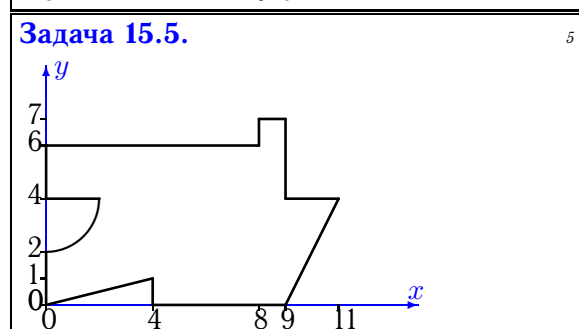
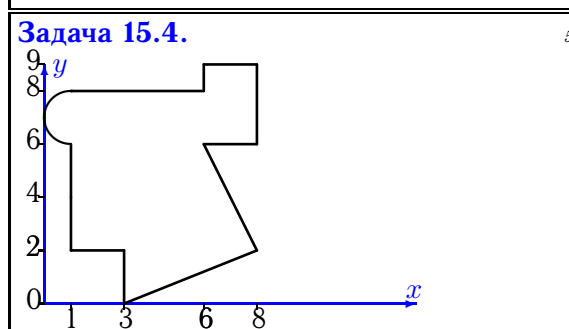
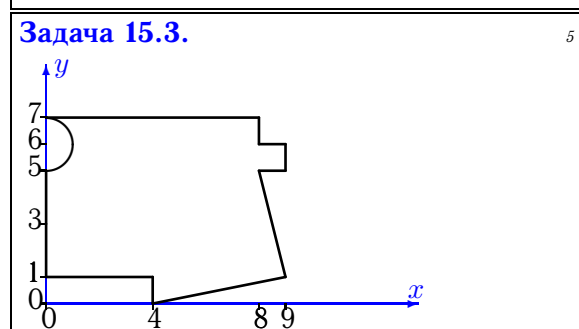
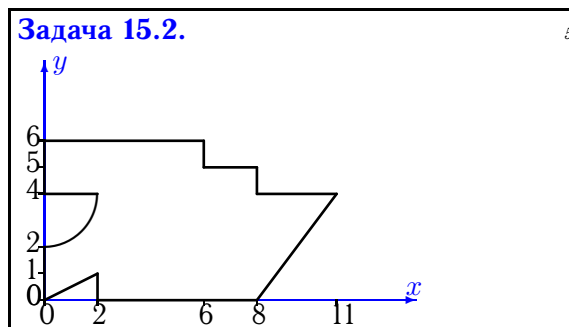
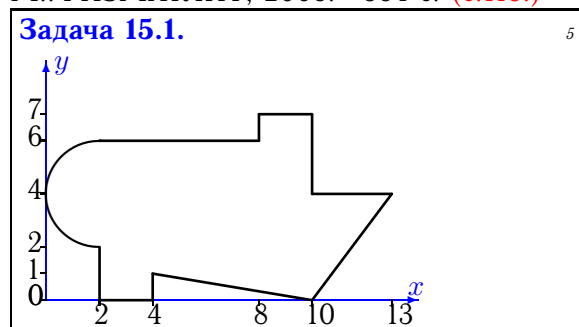


Геометрические характеристики плоской фигуры

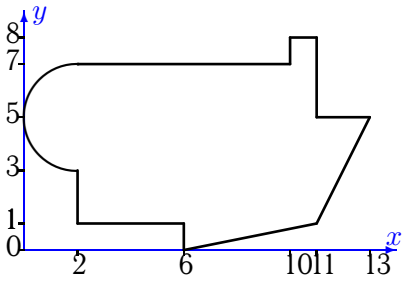
Найти главные моменты инерции (в см^4) плоской фигуры. Отметки на осях даны в сантиметрах. Криволинейный участок контура является дугой половины или четверти окружности.

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



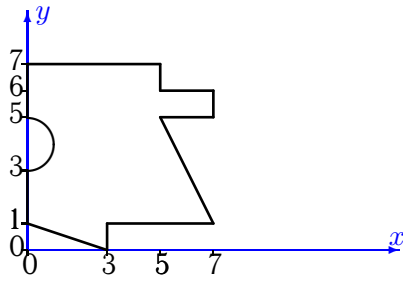
Задача 15.11.

5



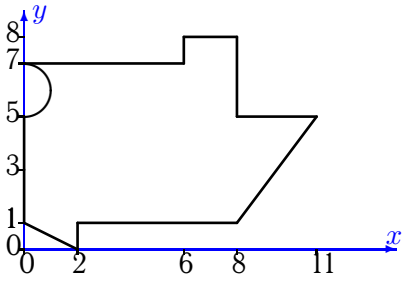
Задача 15.12.

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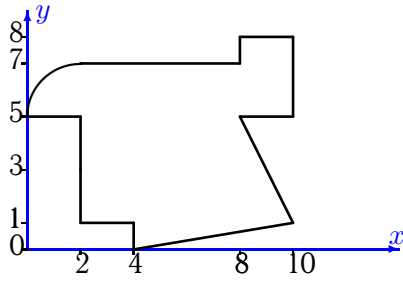
Задача 15.13.

5



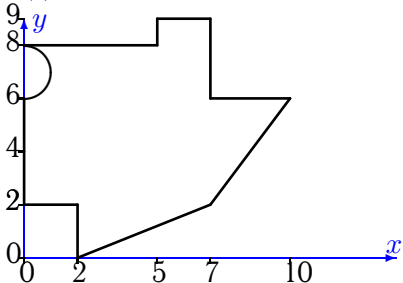
Задача 15.14.

5



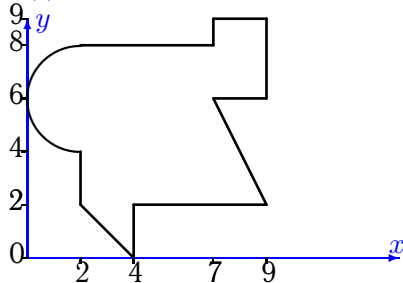
Задача 15.15.

5



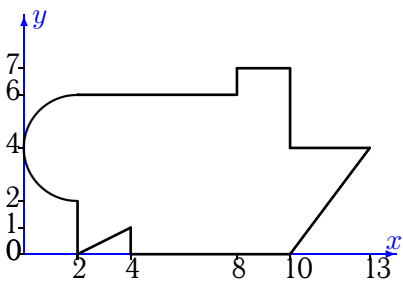
Задача 15.16.

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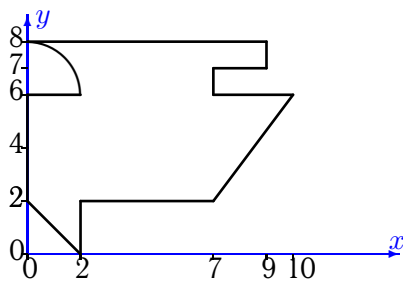
Задача 15.17.

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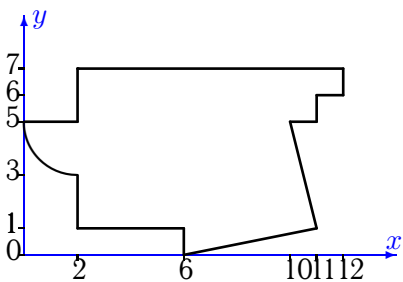
Задача 15.18.

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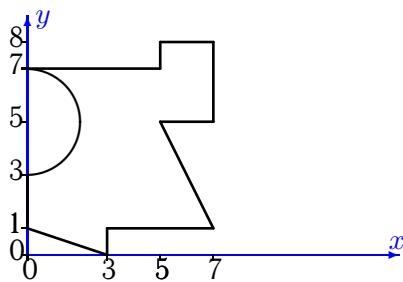
Задача 15.19.

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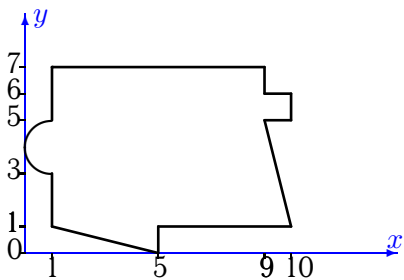
Задача 15.20.

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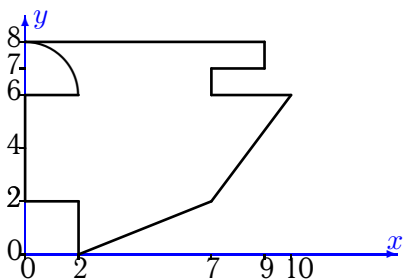
Задача 15.21.

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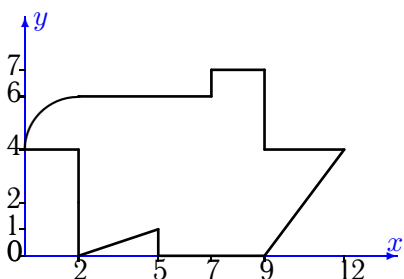
Задача 15.23.

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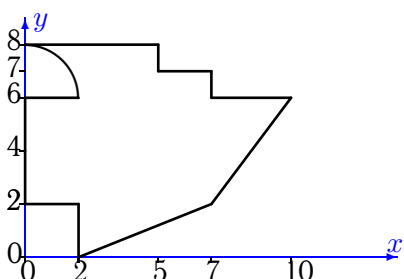
Задача 15.25.

5



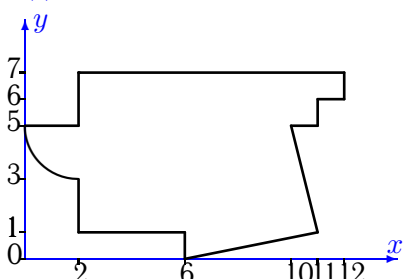
Задача 15.27.

5



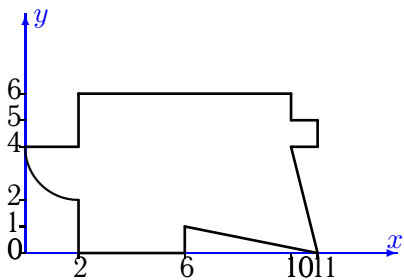
Задача 15.29.

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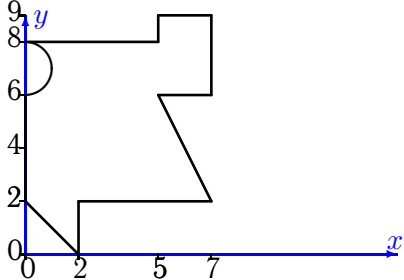
Задача 15.22.

5



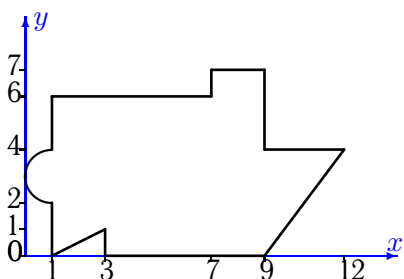
Задача 15.24.

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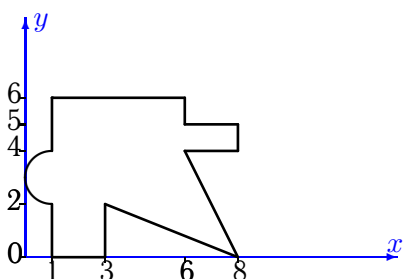
Задача 15.26.

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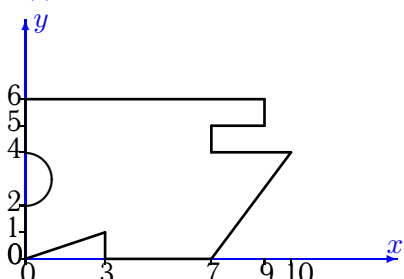
Задача 15.28.

5



Задача 15.30.

5



Геометрические характеристики плоской фигуры

№	A	x_c	y_c	I_x	I_y	I_{xy}	I_{max}	I_{min}	α
1	59.283	6.093	3.325	159.461	570.631	-18.766	571.486	158.606	2.608
2	47.858	4.764	2.900	128.734	322.988	-25.260	326.219	125.503	7.289
3	51.929	4.442	3.744	171.497	294.082	-4.344	294.236	171.343	2.027
4	46.571	4.250	4.853	220.666	180.130	6.453	221.668	179.127	-81.169
5	53.858	5.239	3.130	162.134	407.574	-5.721	407.708	162.001	1.335
6	53.429	5.000	2.969	138.607	408.004	-12.375	408.571	138.040	2.625
7	53.429	4.904	3.106	154.506	388.508	4.712	388.603	154.411	-1.153
8	45.429	3.904	4.110	174.890	216.052	35.649	236.634	154.308	-30.001
9	40.858	4.202	2.948	103.938	236.601	-12.335	237.738	102.801	5.267
10	50.429	4.144	4.891	176.730	283.089	39.357	296.069	163.750	-18.252
11	67.783	6.411	4.002	218.816	676.107	-34.972	678.766	216.157	4.348
12	35.929	3.117	3.759	123.600	109.226	-3.776	124.531	108.295	76.143
13	55.429	4.703	3.973	179.118	387.438	34.103	392.879	173.678	-9.064
14	52.142	5.567	4.079	209.454	300.307	0.726	300.313	209.448	-0.458
15	53.429	4.205	4.692	213.244	274.730	30.109	287.019	200.956	-22.202
16	48.283	4.713	5.151	185.468	252.193	16.240	255.935	181.725	-12.978
17	61.283	6.134	3.228	176.891	568.717	-26.499	570.501	175.107	3.852
18	48.858	4.319	4.792	158.278	291.300	55.131	311.179	138.400	-19.828
19	58.642	6.206	3.920	194.824	447.327	1.943	447.342	194.810	-0.441
20	35.217	3.729	3.916	150.603	108.021	46.876	180.797	77.828	-57.214
21	54.571	5.065	3.844	175.069	349.961	1.303	349.971	175.059	-0.427
22	51.642	5.879	3.103	136.154	377.571	1.616	377.582	136.143	-0.384
23	51.858	4.371	4.592	192.764	281.960	47.907	302.815	171.909	-23.525
24	40.429	3.356	4.947	167.211	145.689	47.186	204.848	108.052	-51.423
25	51.642	5.899	3.287	153.287	357.127	-26.524	360.522	149.892	7.294
26	56.571	5.561	3.136	166.854	433.410	1.535	433.419	166.845	-0.330
27	47.858	4.151	4.349	155.786	246.666	14.773	249.008	153.445	-9.005
28	32.571	3.784	3.246	79.428	125.839	1.231	125.872	79.395	-1.518
29	58.642	6.206	3.920	194.824	447.327	1.943	447.342	194.810	-0.441
30	46.929	4.418	3.149	132.480	278.525	2.949	278.584	132.420	-1.156