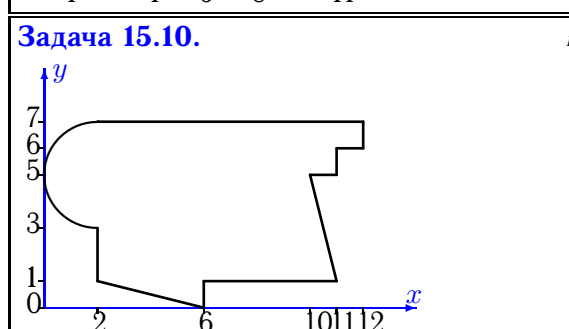
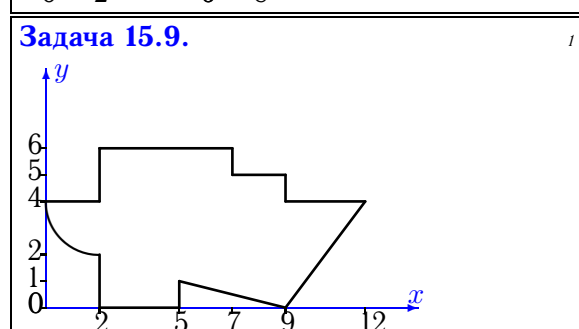
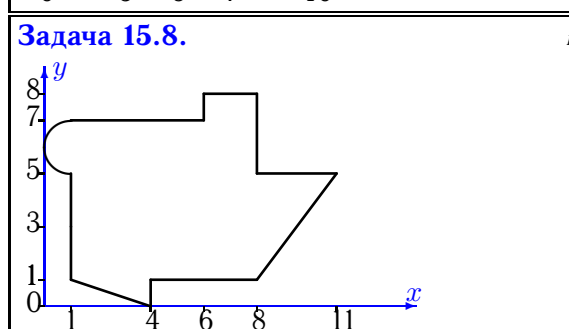
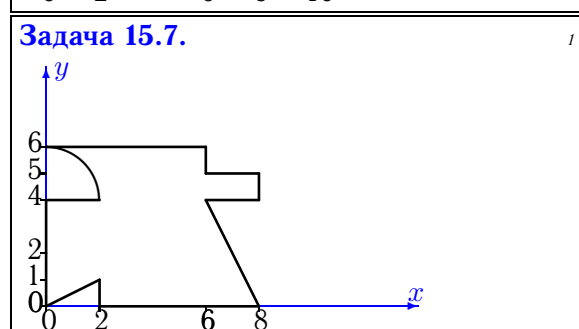
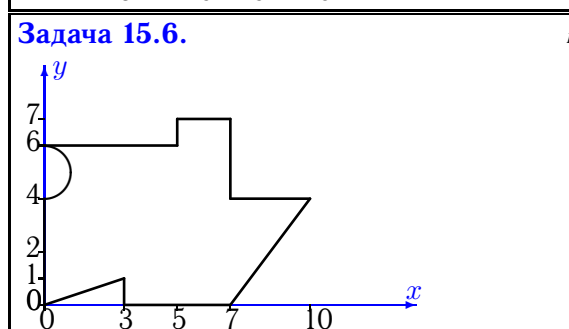
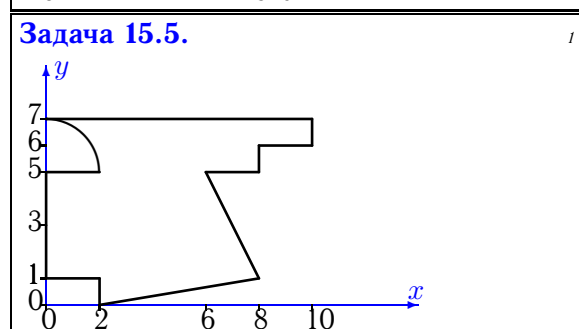
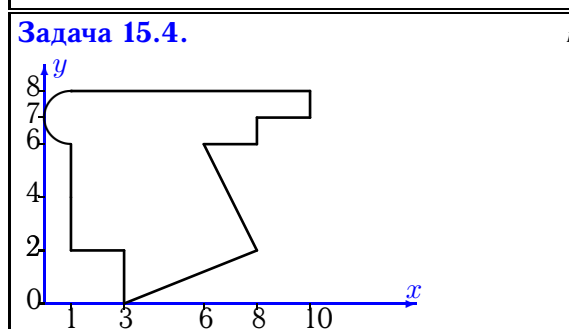
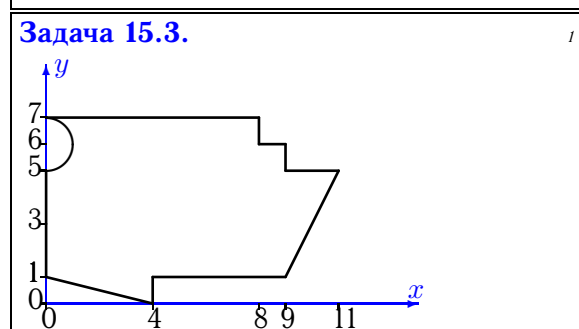
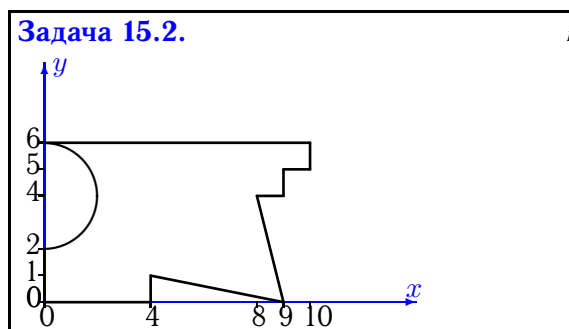
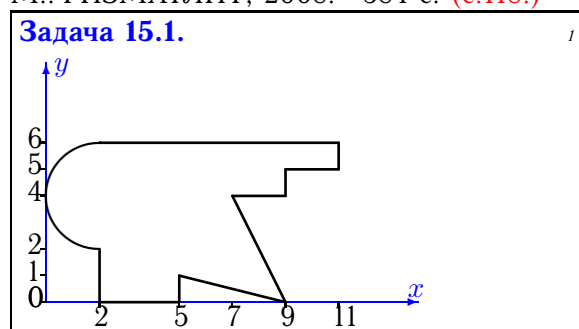


Геометрические характеристики плоской фигуры

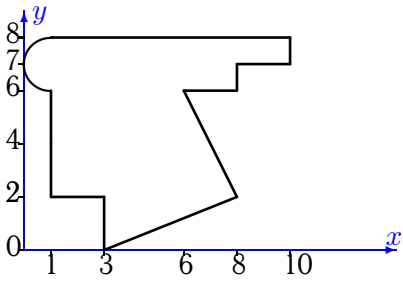
Найти главные моменты инерции (в см^4) плоской фигуры. Отметки на осях даны в сантиметрах. Криволинейный участок контура является дугой половины или четверти окружности.

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



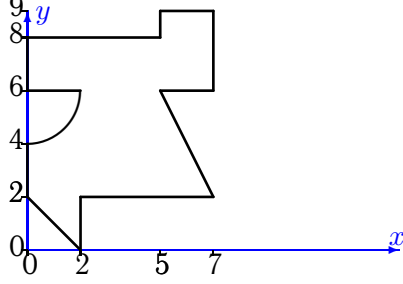
Задача 15.11.

1



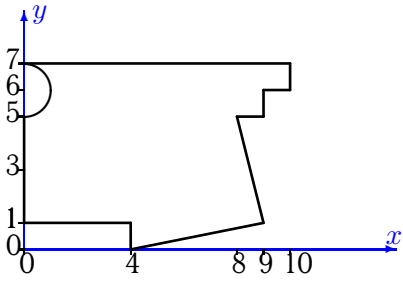
Задача 15.12.

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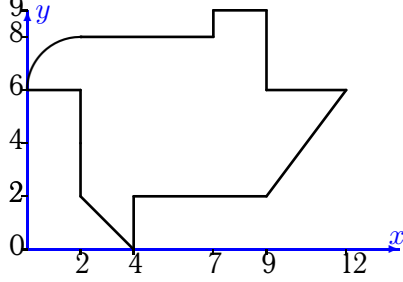
Задача 15.13.

1



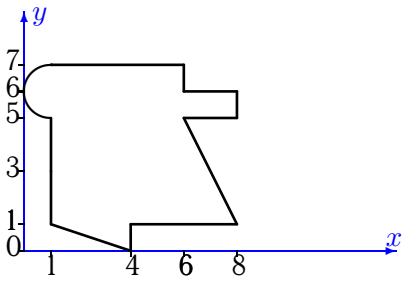
Задача 15.14.

1



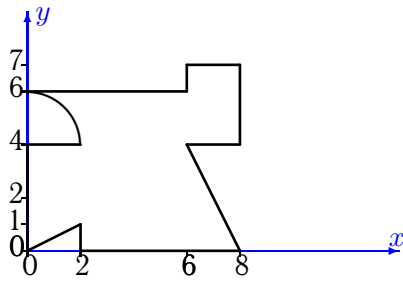
Задача 15.15.

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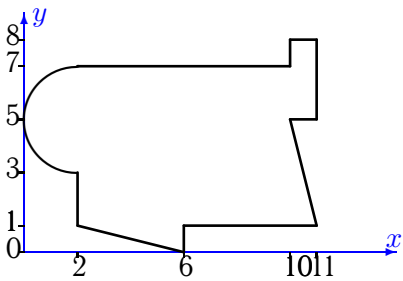
Задача 15.16.

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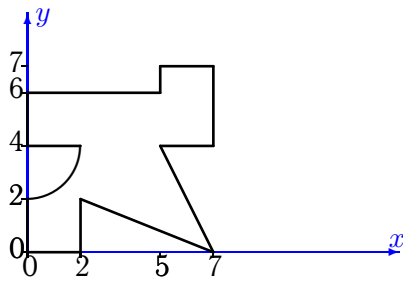
Задача 15.17.

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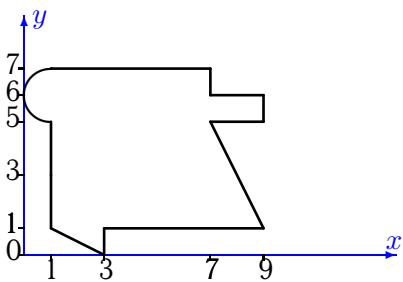
Задача 15.18.

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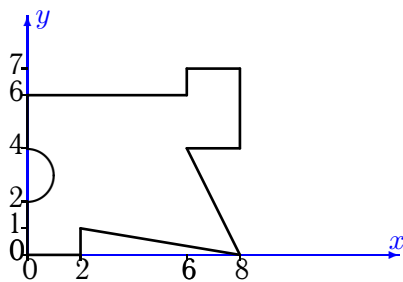
Задача 15.19.

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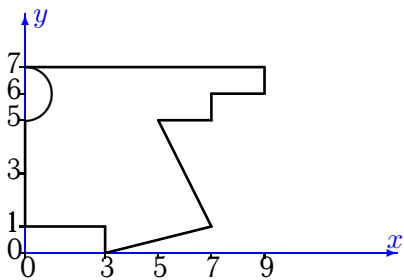
Задача 15.20.

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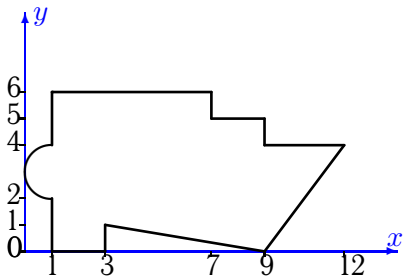
Задача 15.21.

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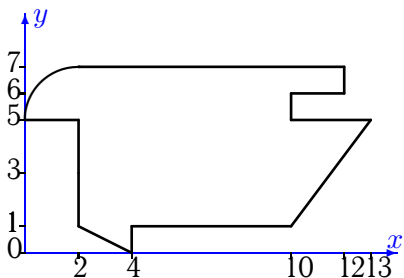
Задача 15.23.

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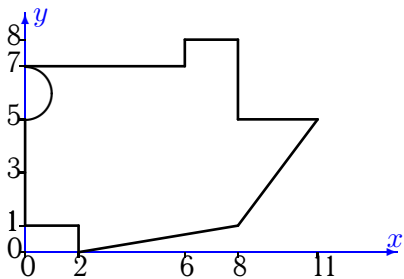
Задача 15.25.

1



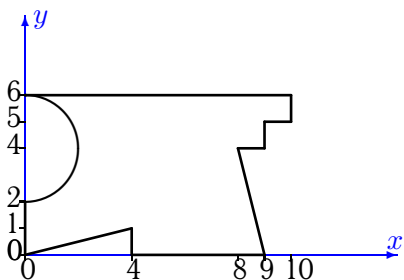
Задача 15.27.

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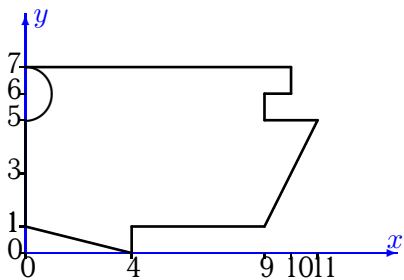
Задача 15.29.

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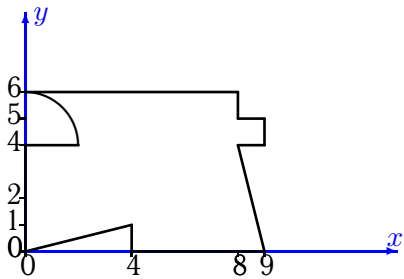
Задача 15.22.

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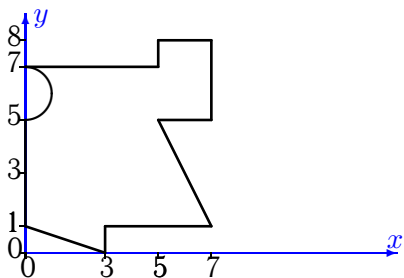
Задача 15.24.

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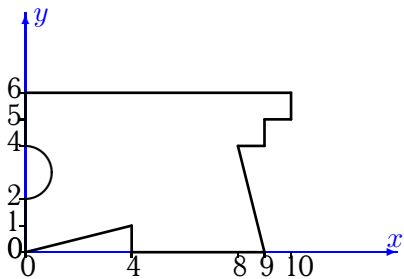
Задача 15.26.

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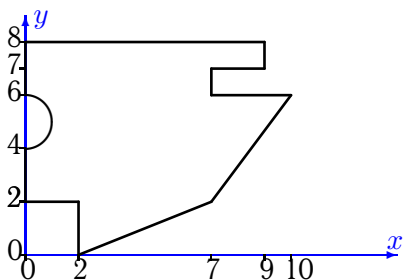
Задача 15.28.

1



Задача 15.30.

1



Геометрические характеристики плоской фигуры

№	A	x_c	y_c	I_x	I_y	I_{xy}	I_{max}	I_{min}	α
1	44.283	4.793	3.405	125.624	274.928	17.206	276.885	123.667	-6.490
2	44.217	4.877	3.080	135.565	256.057	45.226	271.143	120.479	-18.448
3	57.429	4.838	3.762	172.084	431.827	13.413	432.518	171.393	-2.948
4	46.571	4.335	4.810	207.991	209.790	11.713	220.638	197.143	-42.804
5	45.858	4.143	3.793	172.593	234.319	50.756	262.859	144.053	-29.349
6	46.929	4.333	3.125	138.509	257.528	9.159	258.229	137.809	-4.375
7	37.858	3.821	2.820	107.326	151.383	0.516	151.389	107.320	-0.671
8	53.071	4.944	4.059	179.907	327.111	4.150	327.228	179.790	-1.614
9	47.142	5.642	2.975	105.920	339.015	-16.994	340.248	104.687	4.148
10	61.283	5.837	4.045	201.107	517.860	-4.263	517.917	201.049	0.771
11	46.571	4.335	4.810	207.991	209.790	11.713	220.638	197.143	-42.804
12	38.858	3.440	5.014	173.043	138.400	38.860	198.268	113.175	-57.012
13	53.929	4.611	3.846	186.294	334.759	19.851	337.368	183.686	-7.486
14	55.142	5.754	5.063	195.398	375.736	0.289	375.736	195.397	-0.092
15	39.071	3.867	3.859	131.978	138.084	-16.287	151.602	118.461	39.691
16	41.858	4.125	3.124	145.240	189.272	37.084	210.383	124.129	-29.651
17	61.283	5.821	4.062	206.999	507.519	-2.039	507.532	206.986	0.389
18	31.858	3.536	3.613	105.417	121.581	25.783	140.520	86.479	-36.298
19	44.571	4.350	3.913	144.842	211.388	-17.239	215.589	140.641	13.695
20	41.429	3.959	3.394	136.335	203.070	27.510	212.948	126.456	-19.752
21	40.429	3.603	3.914	150.025	167.436	31.854	191.752	125.709	-37.357
22	59.429	4.978	3.855	186.734	465.975	35.434	470.401	182.308	-7.120
23	50.571	5.337	3.020	116.206	409.444	-22.837	411.211	114.438	4.427
24	45.858	4.561	2.950	127.601	262.153	4.612	262.311	127.443	-1.961
25	60.142	6.367	4.091	184.951	533.619	-4.078	533.667	184.904	0.670
26	39.929	3.406	4.005	156.740	140.471	39.222	188.662	108.549	-50.858
27	57.429	4.725	3.858	200.337	383.317	30.633	388.309	195.344	-9.256
28	49.429	4.636	3.172	150.146	319.131	4.342	319.242	150.034	-1.471
29	44.717	5.020	3.050	139.324	248.618	27.287	255.052	132.890	-13.267
30	53.429	4.280	4.713	208.207	296.791	25.790	303.753	201.245	-15.106