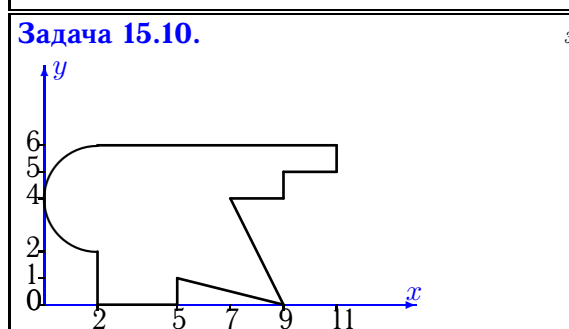
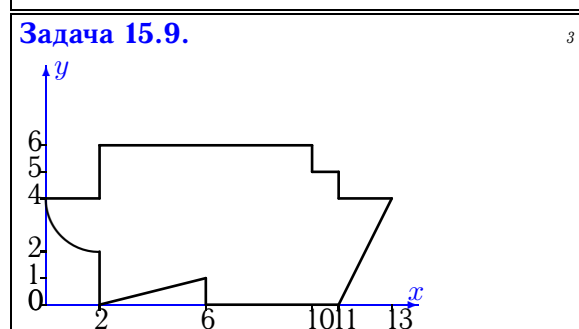
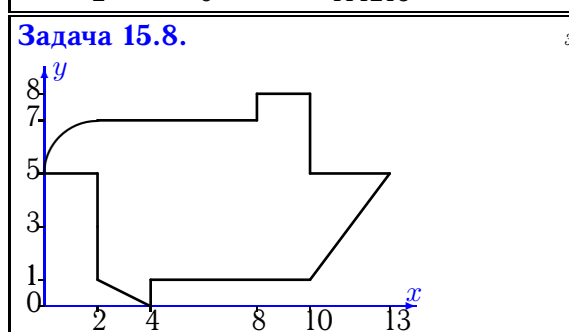
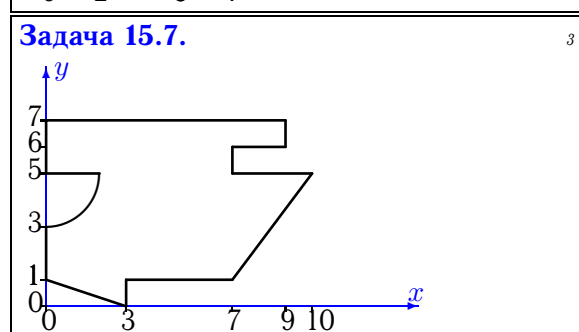
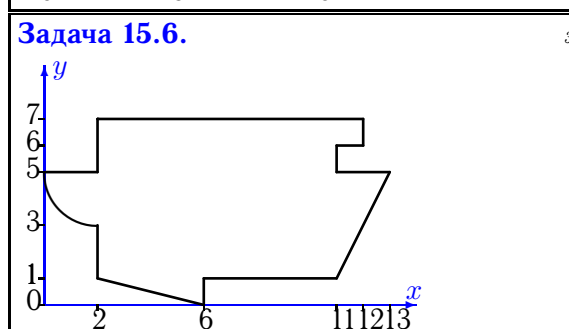
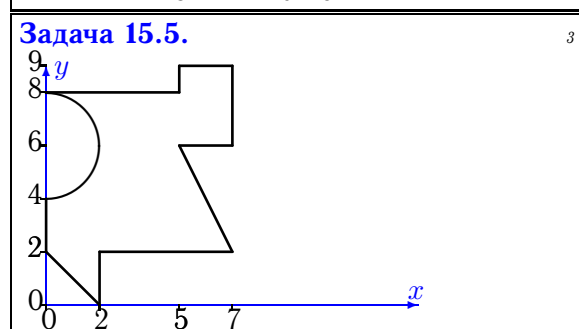
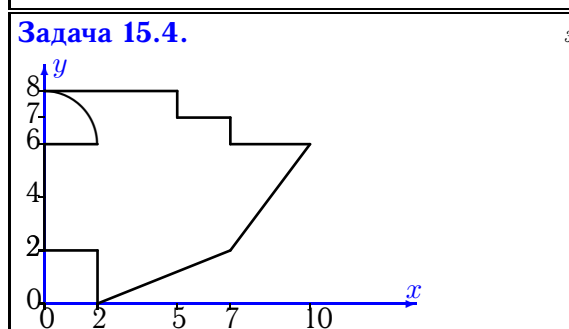
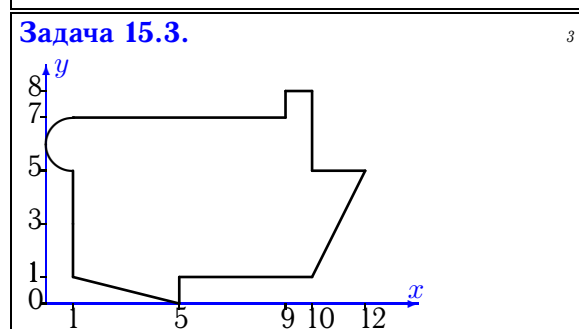
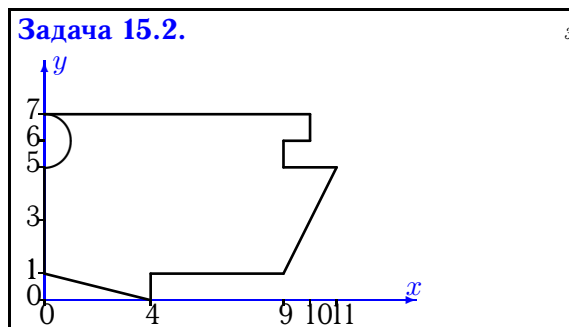
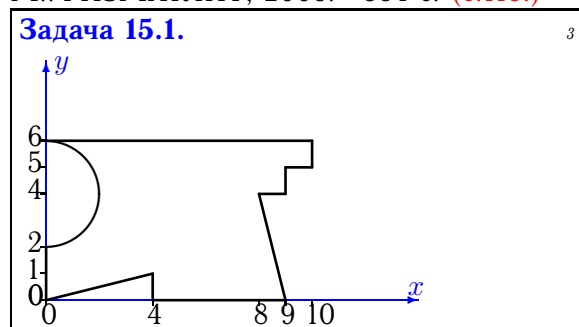


Геометрические характеристики плоской фигуры

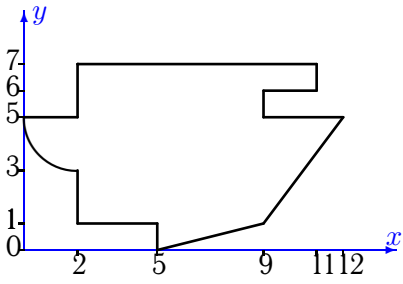
Найти главные моменты инерции (в см⁴) плоской фигуры. Отметки на осях даны в сантиметрах. Криволинейный участок контура является дугой половины или четверти окружности.

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



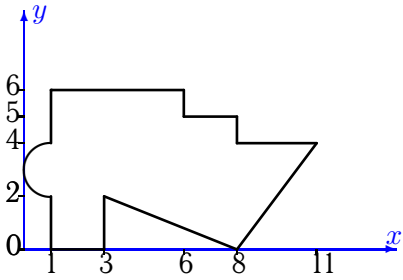
Задача 15.11.

3



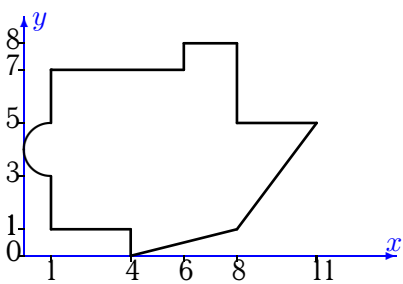
Задача 15.13.

3



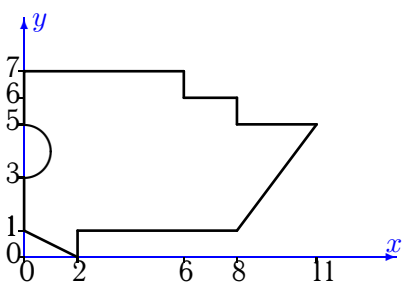
Задача 15.15.

3



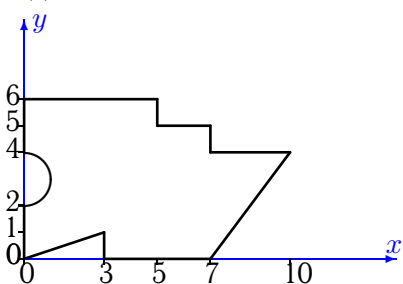
Задача 15.17.

3



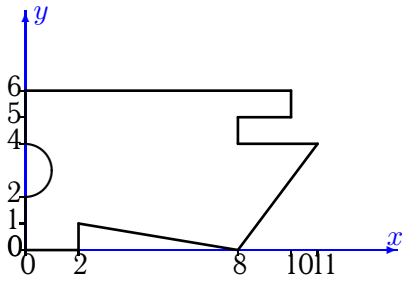
Задача 15.19.

3



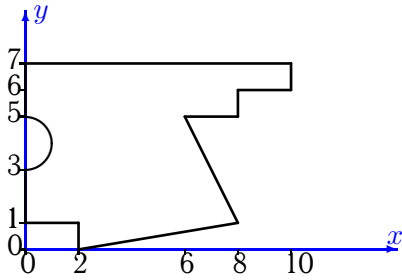
Задача 15.12.

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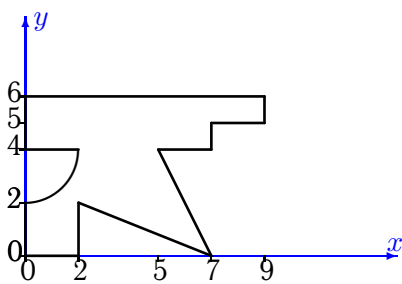
Задача 15.14.

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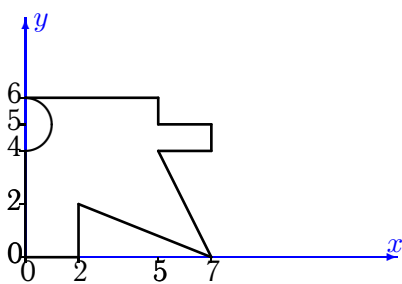
Задача 15.16.

3



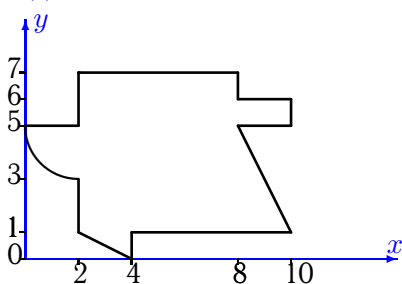
Задача 15.18.

3



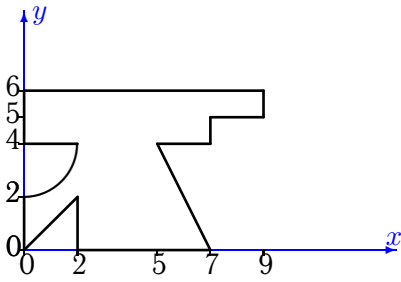
Задача 15.20.

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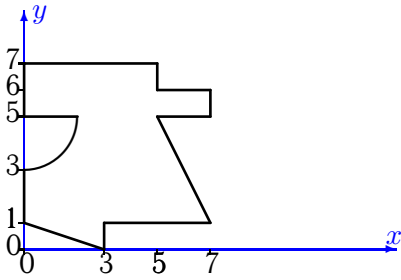
Задача 15.21.

3



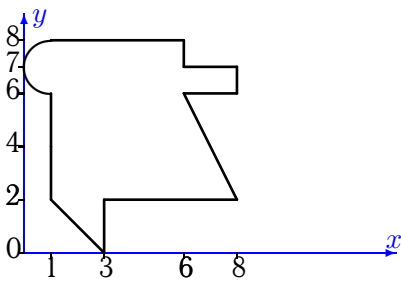
Задача 15.23.

3



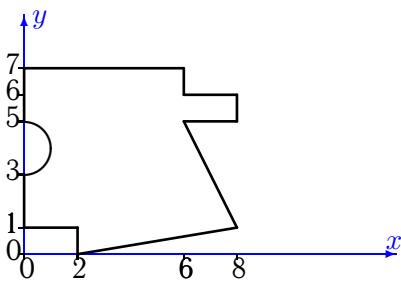
Задача 15.25.

3



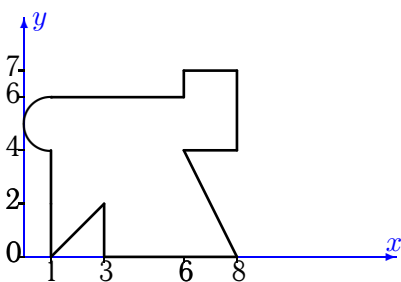
Задача 15.27.

3



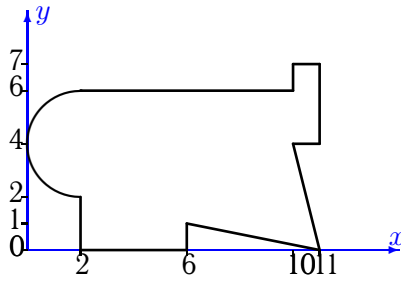
Задача 15.29.

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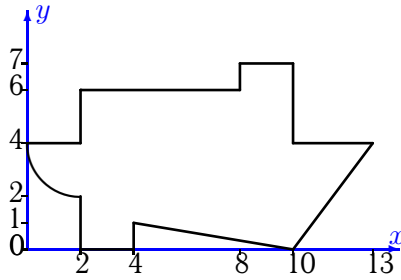
Задача 15.22.

3



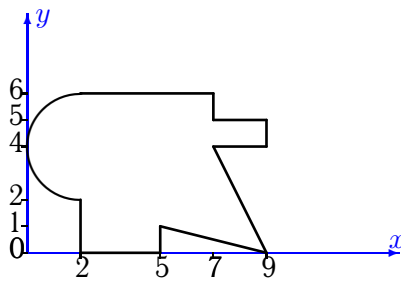
Задача 15.24.

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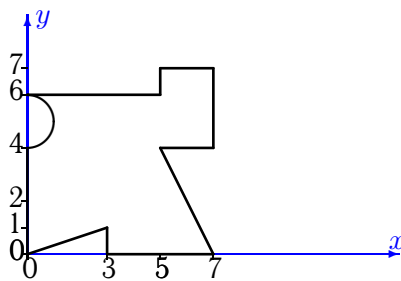
Задача 15.26.

3



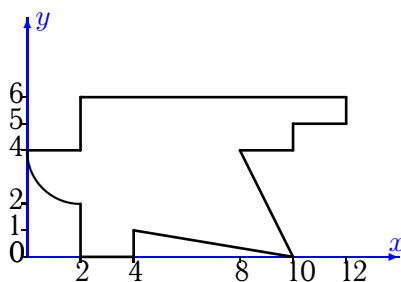
Задача 15.28.

3



Задача 15.30.

3



Геометрические характеристики плоской фигуры

№	A	x_c	y_c	I_x	I_y	I_{xy}	I_{max}	I_{min}	α
1	44.717	5.020	3.050	139.324	248.618	27.287	255.052	132.890	-13.267
2	59.429	4.978	3.855	186.734	465.975	35.434	470.401	182.308	-7.120
3	62.571	5.712	3.978	207.313	532.139	4.817	532.211	207.242	-0.850
4	47.858	4.151	4.349	155.786	246.666	14.773	249.008	153.445	-9.005
5	35.717	3.668	4.852	160.652	114.576	55.377	197.592	77.636	-56.294
6	64.142	6.581	3.922	195.223	596.088	16.103	596.734	194.577	-2.297
7	48.358	4.370	3.949	160.340	281.717	26.024	287.062	154.996	-11.605
8	60.142	6.301	4.124	196.521	504.293	-8.316	504.517	196.296	1.547
9	58.142	6.561	3.034	146.216	538.128	-28.924	540.251	144.093	4.198
10	44.283	4.793	3.405	125.624	274.928	17.206	276.885	123.667	-6.490
11	55.142	5.935	3.942	167.765	390.176	9.227	390.559	167.383	-2.372
12	51.429	4.887	3.214	138.421	393.014	7.743	393.249	138.186	-1.740
13	42.571	4.852	3.110	90.881	294.765	-17.811	296.309	89.337	4.955
14	47.429	4.048	3.923	185.491	247.031	31.010	259.946	172.575	-22.611
15	53.571	5.013	3.969	179.341	322.516	6.022	322.769	179.088	-2.404
16	31.858	3.662	3.550	95.743	148.787	28.656	161.311	83.219	-23.607
17	51.429	4.524	3.799	146.031	363.352	-8.752	363.704	145.679	2.302
18	29.429	3.081	3.165	73.522	98.111	7.199	100.064	71.570	-15.175
19	42.929	4.177	2.930	107.981	244.040	-23.593	248.015	104.006	9.563
20	46.142	5.193	3.859	138.527	244.029	-8.665	244.736	137.820	4.664
21	34.858	3.796	3.302	119.206	143.813	14.710	150.687	112.332	-25.045
22	56.783	5.780	3.301	161.823	490.994	3.833	491.039	161.779	-0.667
23	34.358	3.202	3.734	122.701	103.438	-2.191	122.947	103.192	83.592
24	56.142	6.370	3.240	150.882	488.725	5.949	488.830	150.778	-1.009
25	39.571	3.822	4.801	141.782	141.275	-9.824	151.356	131.701	45.738
26	40.283	4.375	3.197	105.997	191.756	-21.546	196.865	100.888	13.340
27	43.429	3.684	3.685	156.140	173.476	-13.483	180.837	148.779	28.632
28	36.929	3.520	3.249	126.953	132.558	25.518	155.427	104.084	-41.866
29	39.571	4.294	3.408	135.425	164.450	2.835	164.725	135.151	-5.526
30	46.142	5.598	3.321	127.364	322.603	34.225	328.429	121.538	-9.660