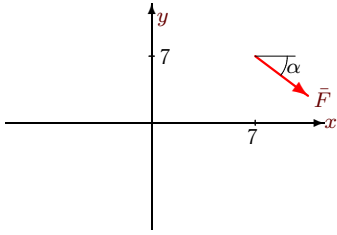


Момент силы относительно точки

Найти момент силы F относительно начала координат.

Задача 23.1.

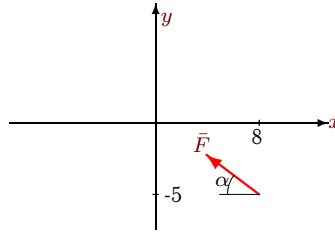
6



$$F = 5, \operatorname{tg} \alpha = 3/4$$

Задача 23.2.

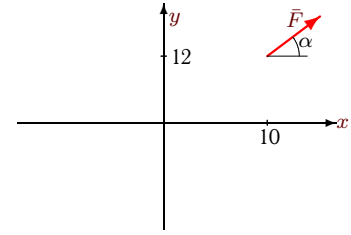
6



$$F = 5, \operatorname{tg} \alpha = 3/4$$

Задача 23.3.

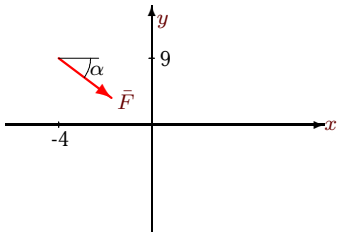
6



$$F = 15, \operatorname{tg} \alpha = 3/4$$

Задача 23.4.

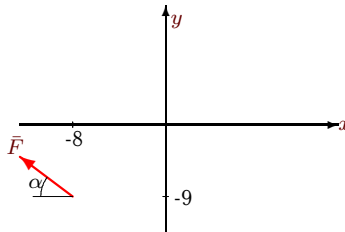
6



$$F = 10, \operatorname{tg} \alpha = 3/4$$

Задача 23.5.

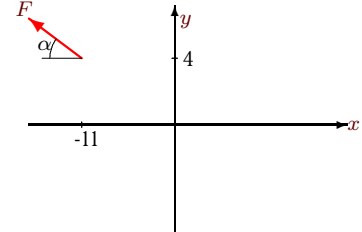
6



$$F = 15, \operatorname{tg} \alpha = 4/3$$

Задача 23.6.

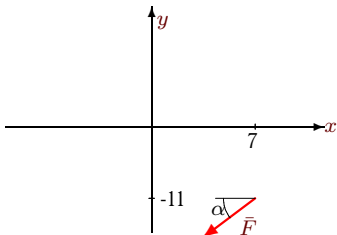
6



$$F = 5, \operatorname{tg} \alpha = 3/4$$

Задача 23.7.

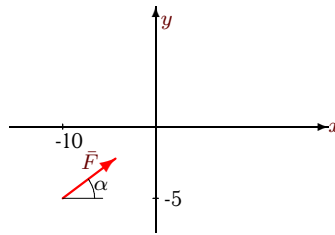
6



$$F = 20, \operatorname{tg} \alpha = 3/4$$

Задача 23.8.

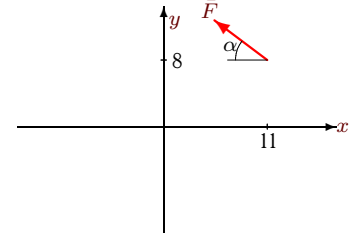
6



$$F = 10, \operatorname{tg} \alpha = 3/4$$

Задача 23.9.

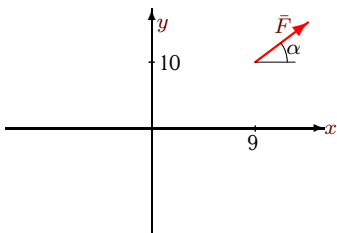
6



$$F = 10, \operatorname{tg} \alpha = 4/3$$

Задача 23.10.

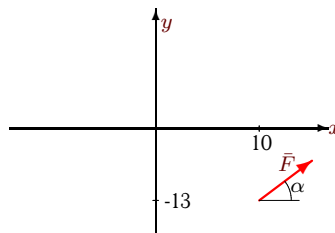
6



$$F = 20, \operatorname{tg} \alpha = 4/3$$

Задача 23.11.

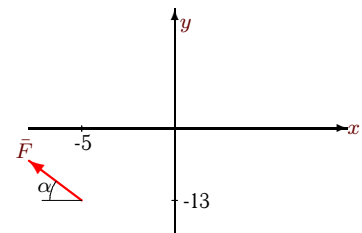
6



$$F = 15, \operatorname{tg} \alpha = 4/3$$

Задача 23.12.

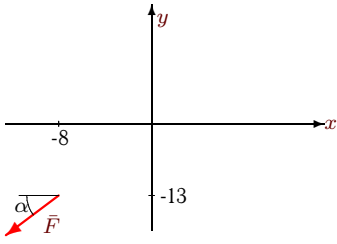
6



$$F = 5, \operatorname{tg} \alpha = 4/3$$

Задача 23.13.

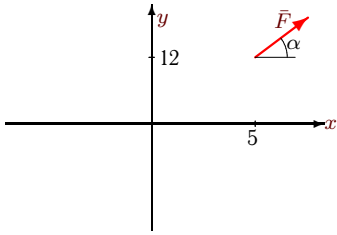
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.16.

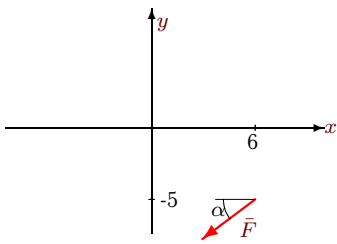
6



$$F = 5, \operatorname{tg}\alpha = 3/4$$

Задача 23.19.

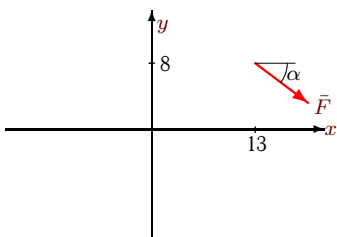
6



$$F = 10, \operatorname{tg}\alpha = 3/4$$

Задача 23.22.

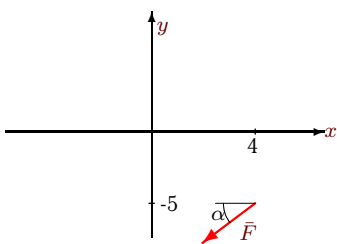
6



$$F = 20, \operatorname{tg}\alpha = 4/3$$

Задача 23.25.

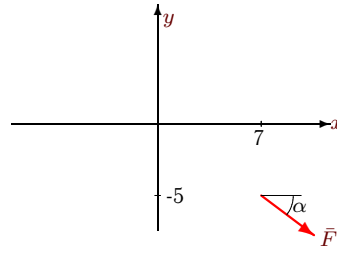
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.14.

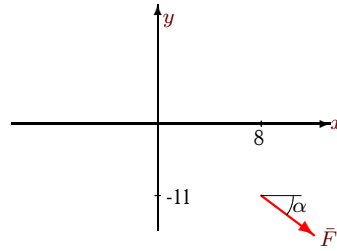
6



$$F = 15, \operatorname{tg}\alpha = 4/3$$

Задача 23.17.

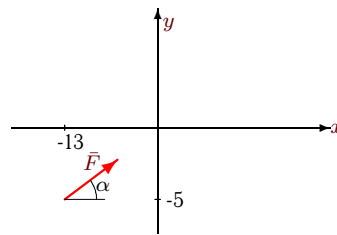
6



$$F = 10, \operatorname{tg}\alpha = 3/4$$

Задача 23.20.

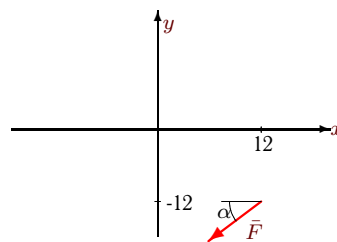
6



$$F = 15, \operatorname{tg}\alpha = 3/4$$

Задача 23.23.

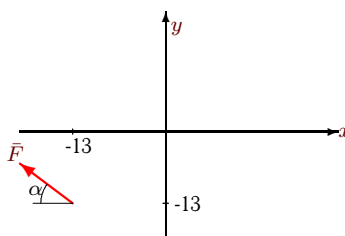
6



$$F = 5, \operatorname{tg}\alpha = 3/4$$

Задача 23.26.

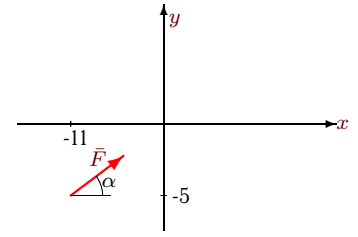
6



$$F = 5, \operatorname{tg}\alpha = 3/4$$

Задача 23.15.

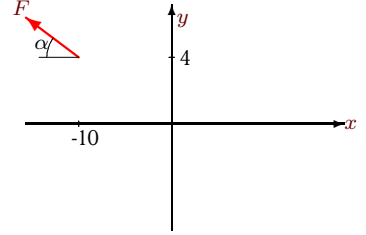
6



$$F = 5, \operatorname{tg}\alpha = 4/3$$

Задача 23.18.

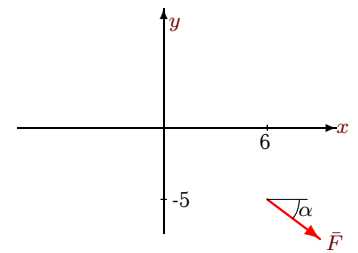
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.21.

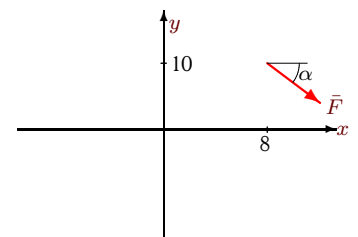
6



$$F = 5, \operatorname{tg}\alpha = 3/4$$

Задача 23.24.

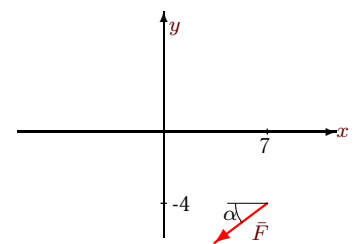
6



$$F = 5, \operatorname{tg}\alpha = 4/3$$

Задача 23.27.

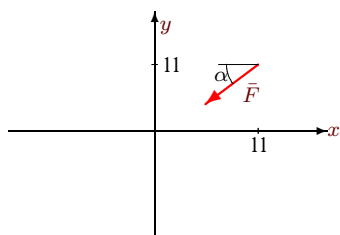
6



$$F = 20, \operatorname{tg}\alpha = 3/4$$

Задача 23.28.

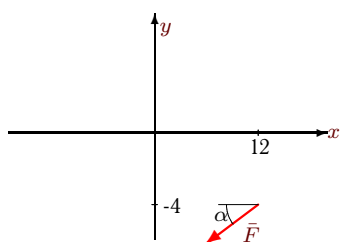
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.31.

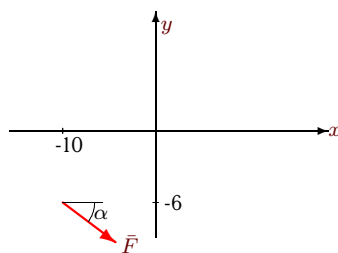
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.29.

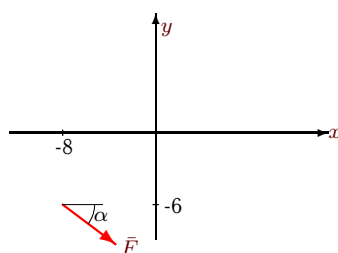
6



$$F = 10, \operatorname{tg}\alpha = 3/4$$

Задача 23.32.

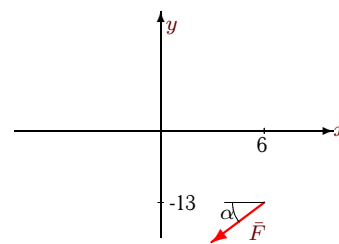
6



$$F = 15, \operatorname{tg}\alpha = 4/3$$

Задача 23.30.

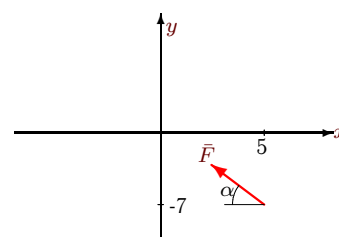
6



$$F = 10, \operatorname{tg}\alpha = 4/3$$

Задача 23.33.

6



$$F = 20, \operatorname{tg}\alpha = 3/4$$

Момент силы относительно точки

№	$M(F_x)$	$M(F_y)$	$M(F)$
1	-28	-21	-49
2	-20	24	4
3	-144	90	-54
4	-72	24	-48
5	-81	-96	-177
6	16	-33	-17
7	-176	-84	-260
8	40	-60	-20
9	48	88	136
10	-120	144	24
11	117	120	237
12	-39	-20	-59
13	-78	64	-14
14	45	-84	-39
15	15	-44	-29
16	-48	15	-33
17	88	-48	40
18	24	-80	-56
19	-40	-36	-76
20	60	-117	-57
21	20	-18	2
22	-96	-208	-304
23	-48	-36	-84
24	-30	-32	-62
25	-30	-32	-62
26	-52	-39	-91
27	-64	-84	-148
28	66	-88	-22
29	48	60	108
30	-78	-48	-126
31	-24	-96	-120
32	54	96	150
33	-112	60	-52