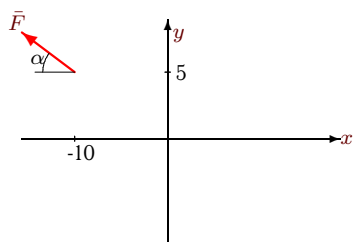


Момент силы относительно точки

Найти момент силы F относительно начала координат.

Задача 23.1.

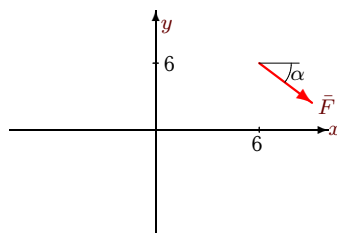
9



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

Задача 23.2.

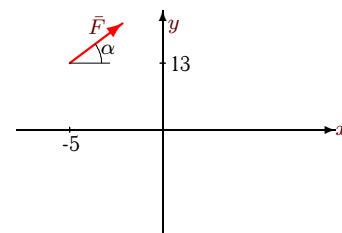
9



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

Задача 23.3.

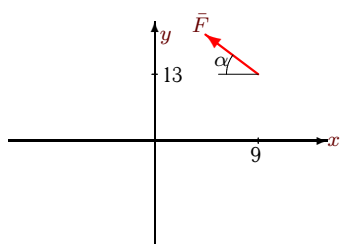
9



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

Задача 23.4.

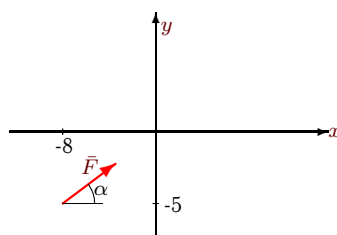
9



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

Задача 23.5.

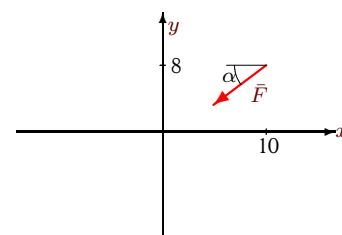
9



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

Задача 23.6.

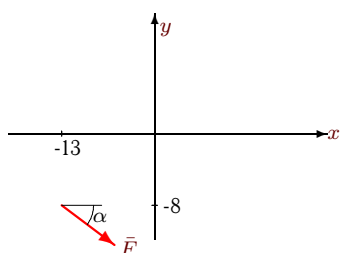
9



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

Задача 23.7.

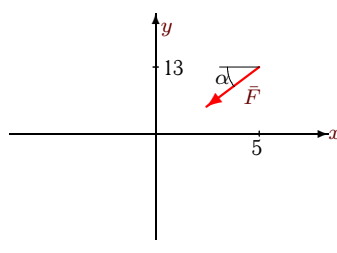
9



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

Задача 23.8.

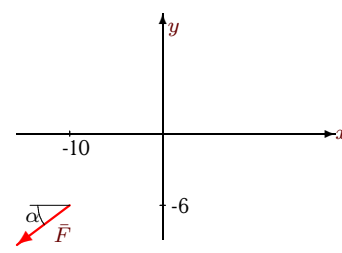
9



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

Задача 23.9.

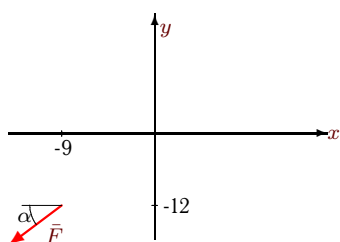
9



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

Задача 23.10.

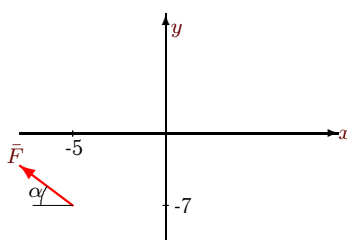
9



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

Задача 23.11.

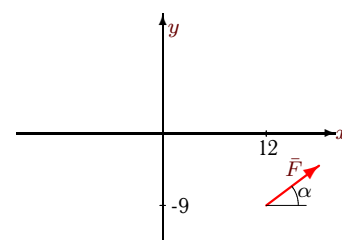
9



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

Задача 23.12.

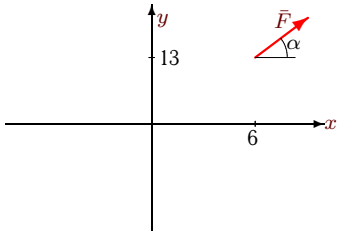
9



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

Задача 23.13.

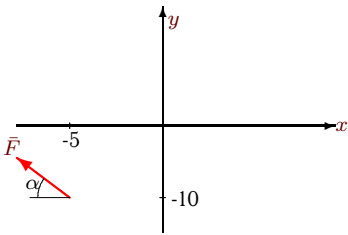
9



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

Задача 23.16.

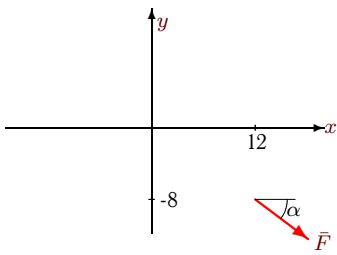
9



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

Задача 23.19.

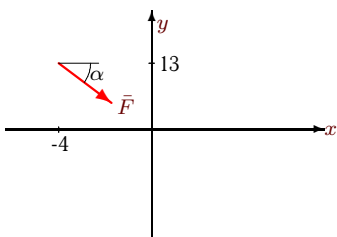
9



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

Задача 23.22.

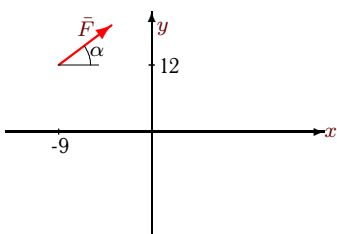
9



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

Задача 23.25.

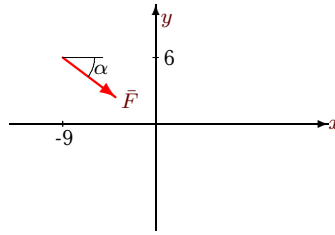
9



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

Задача 23.14.

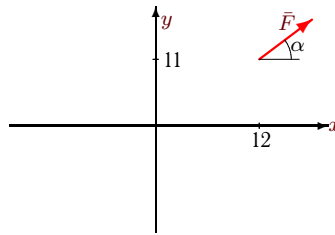
9



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

Задача 23.17.

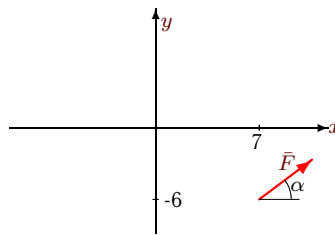
9



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

Задача 23.20.

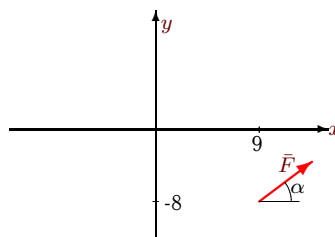
9



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

Задача 23.23.

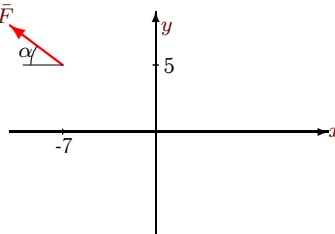
9



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

Задача 23.26.

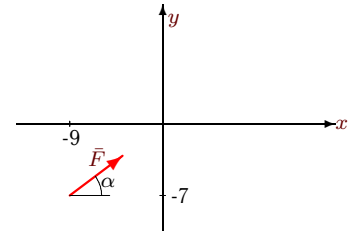
9



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

Задача 23.15.

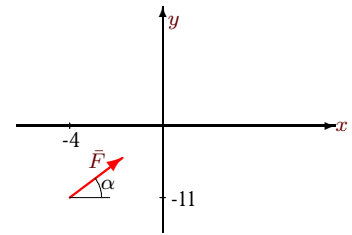
9



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

Задача 23.18.

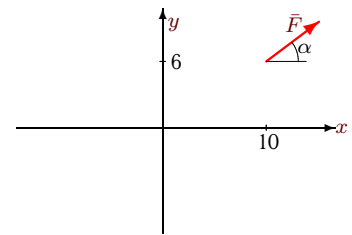
9



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

Задача 23.21.

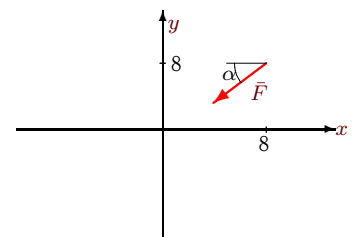
9



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

Задача 23.24.

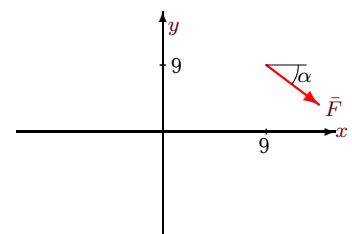
9



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

Задача 23.27.

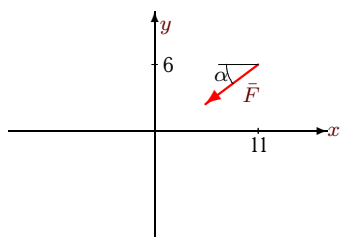
9



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

Задача 23.28.

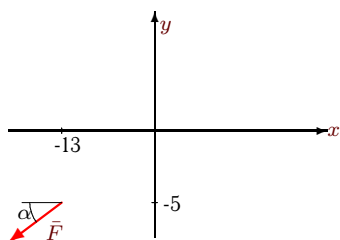
9



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

Задача 23.31.

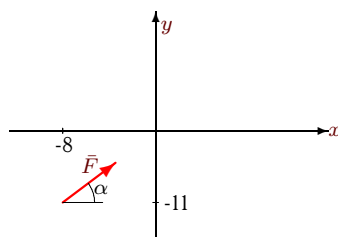
9



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

Задача 23.29.

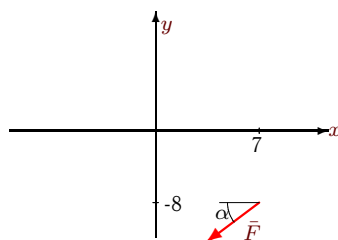
9



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

Задача 23.32.

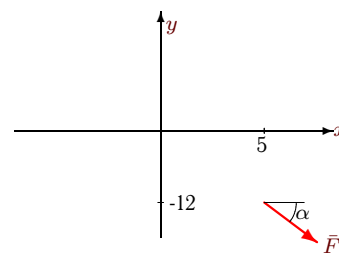
9



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

Задача 23.30.

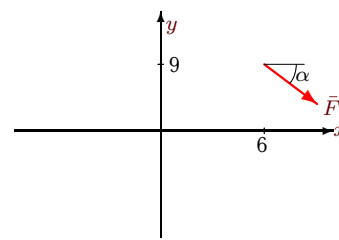
9



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

Задача 23.33.

9



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

Момент силы относительно точки

№	$M(F_x)$	$M(F_y)$	$M(F)$
1	20	-30	-10
2	-54	-72	-126
3	-156	-45	-201
4	156	81	237
5	30	-64	-34
6	96	-90	6
7	72	156	228
8	208	-60	148
9	-36	80	44
10	-36	36	0
11	-63	-60	-123
12	108	108	216
13	-208	72	-136
14	-96	108	12
15	21	-36	-15
16	-160	-60	-220
17	-88	72	-16
18	88	-24	64
19	128	-144	-16
20	18	28	46
21	-18	40	22
22	-78	32	-46
23	96	81	177
24	72	-96	-24
25	-108	-108	-216
26	15	-28	-13
27	-108	-81	-189
28	24	-33	-9
29	66	-64	2
30	48	-15	33
31	-20	39	19
32	-24	-28	-52
33	-81	-72	-153