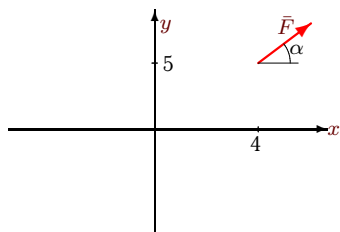


## Момент силы относительно точки

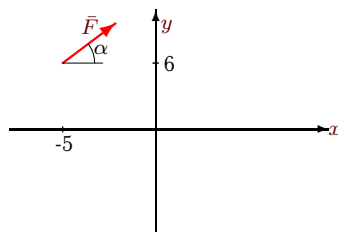
Найти момент силы  $F$  относительно начала координат.

**Задача 23.1.**



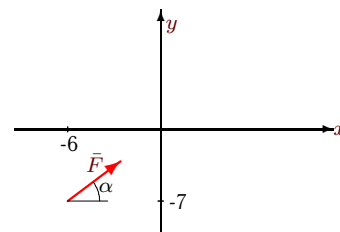
$$F = 5, \operatorname{tg}\alpha = 3/4$$

**Задача 23.2.**



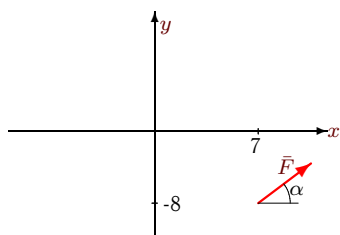
$$F = 10, \operatorname{tg}\alpha = 3/4$$

**Задача 23.3.**



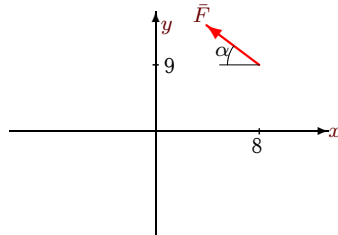
$$F = 15, \operatorname{tg}\alpha = 3/4$$

**Задача 23.4.**



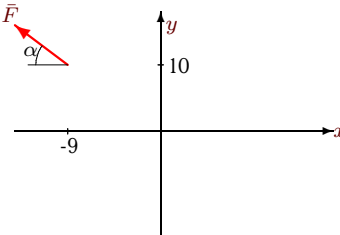
$$F = 20, \operatorname{tg}\alpha = 3/4$$

**Задача 23.5.**



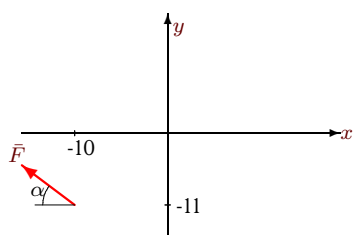
$$F = 10, \operatorname{tg}\alpha = 3/4$$

**Задача 23.6.**



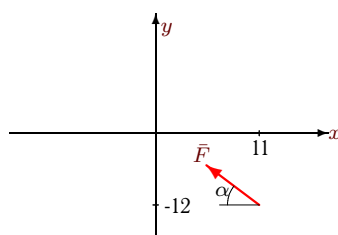
$$F = 10, \operatorname{tg}\alpha = 3/4$$

**Задача 23.7.**



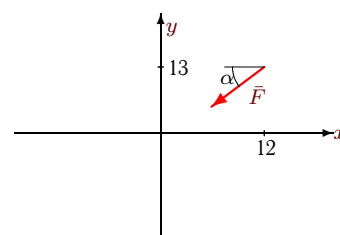
$$F = 20, \operatorname{tg}\alpha = 3/4$$

**Задача 23.8.**



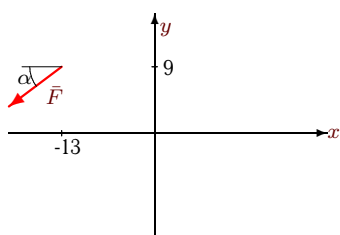
$$F = 10, \operatorname{tg}\alpha = 3/4$$

**Задача 23.9.**



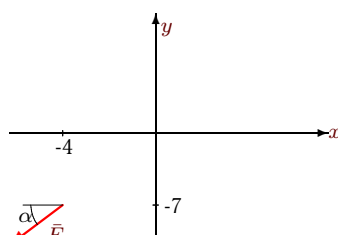
$$F = 15, \operatorname{tg}\alpha = 3/4$$

**Задача 23.10.**



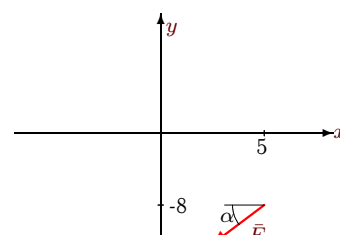
$$F = 15, \operatorname{tg}\alpha = 4/3$$

**Задача 23.11.**



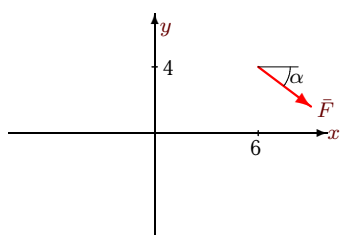
$$F = 5, \operatorname{tg}\alpha = 4/3$$

**Задача 23.12.**



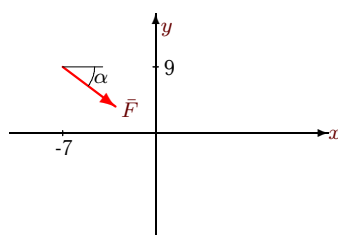
$$F = 15, \operatorname{tg}\alpha = 4/3$$

**Задача 23.13.**



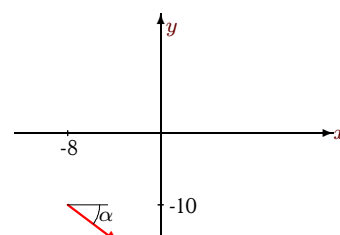
$$F = 10, \operatorname{tg}\alpha = 4/3$$

**Задача 23.14.**



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

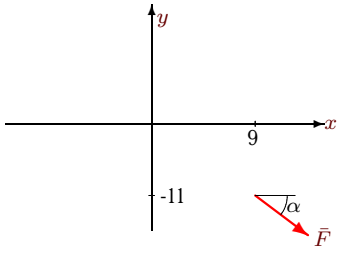
**Задача 23.15.**



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

**Задача 23.16.**

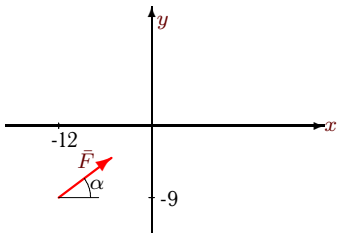
1



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

**Задача 23.19.**

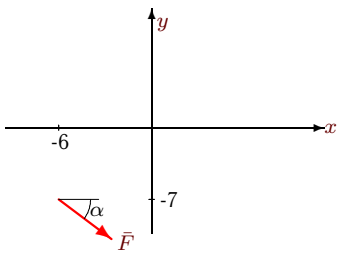
1



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

**Задача 23.22.**

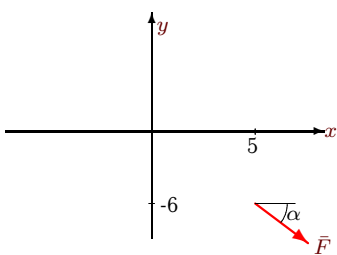
1



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

**Задача 23.25.**

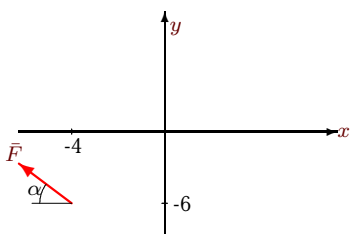
1



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

**Задача 23.28.**

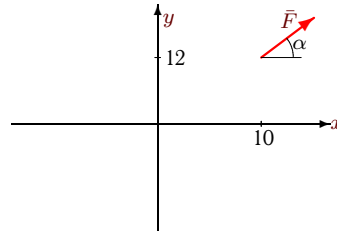
1



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

**Задача 23.17.**

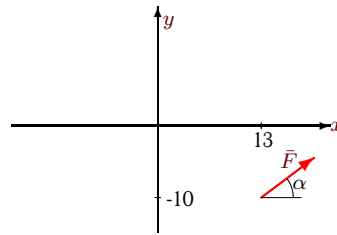
1



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

**Задача 23.20.**

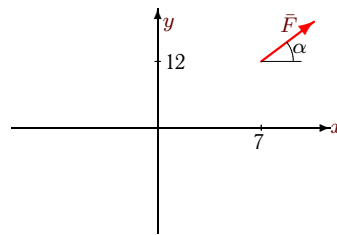
1



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

**Задача 23.23.**

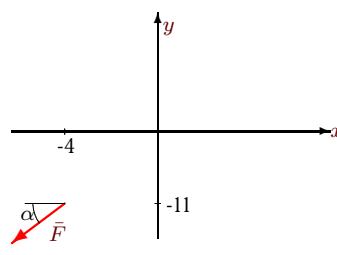
1



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

**Задача 23.26.**

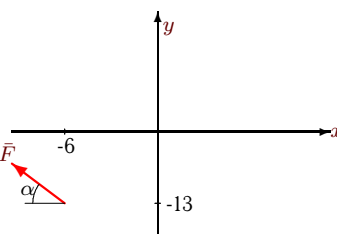
1



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

**Задача 23.29.**

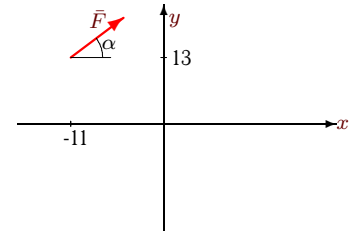
1



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

**Задача 23.18.**

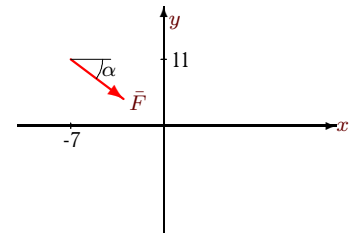
1



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

**Задача 23.21.**

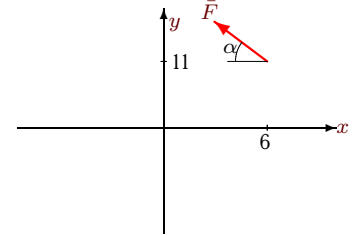
1



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

**Задача 23.24.**

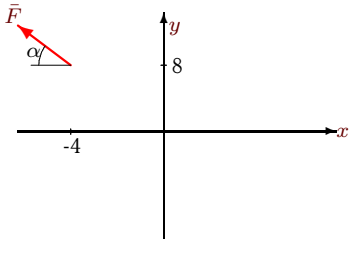
1



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

**Задача 23.27.**

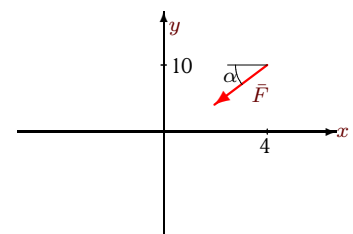
1



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

**Задача 23.30.**

1



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

**Момент силы относительно точки**

№	$M(F_x)$	$M(F_y)$	$M(F)$
1	-20	12	-8
2	-48	-30	-78
3	84	-54	30
4	128	84	212
5	72	48	120
6	80	-54	26
7	-176	-120	-296
8	-96	66	-30
9	156	-108	48
10	81	156	237
11	-21	16	-5
12	-72	-60	-132
13	-24	-48	-72
14	-108	112	4
15	60	64	124
16	132	-144	-12
17	-72	80	8
18	-39	-44	-83
19	81	-144	-63
20	30	52	82
21	-132	112	-20
22	112	72	184
23	-48	21	-27
24	88	36	124
25	72	-80	-8
26	-99	48	-51
27	64	-24	40
28	-48	-24	-72
29	-78	-48	-126
30	90	-48	42