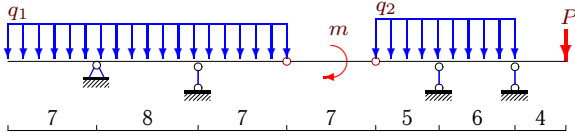


# Многопролетная балка

Определить реакции опор многопролетной балки.

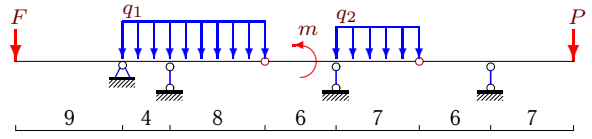
**Задача 29.1**



$m=8 \text{ кНм}, q_1=8 \frac{\text{кН}}{\text{М}}, q_2=10 \frac{\text{кН}}{\text{М}}, P=7 \text{ кН}$

29.4

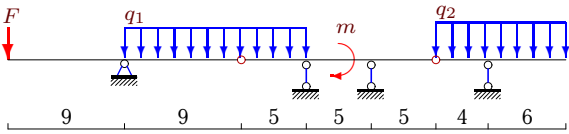
**Задача 29.2**



$m=4 \text{ кНм}, q_1=9 \frac{\text{кН}}{\text{М}}, q_2=7 \frac{\text{кН}}{\text{М}}, F=8 \text{ кН}, P=7 \text{ кН}$

29.4

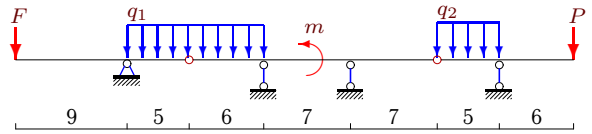
**Задача 29.3**



$m=8 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{М}}, q_2=8 \frac{\text{кН}}{\text{М}}, F=6 \text{ кН}$

29.4

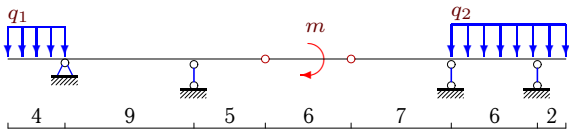
**Задача 29.4**



$m=9 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=8 \frac{\text{кН}}{\text{М}}, F=8 \text{ кН}, P=6 \text{ кН}$

29.4

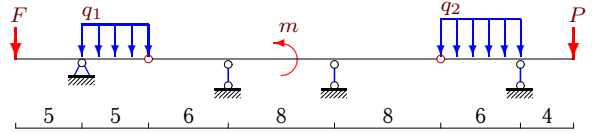
**Задача 29.5**



$m=10 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{М}}, q_2=7 \frac{\text{кН}}{\text{М}}$

29.4

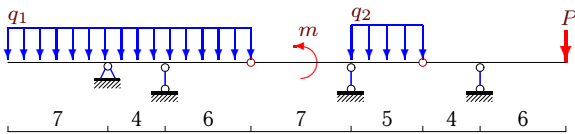
**Задача 29.6**



$m=9 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}, F=9 \text{ кН}, P=7 \text{ кН}$

29.4

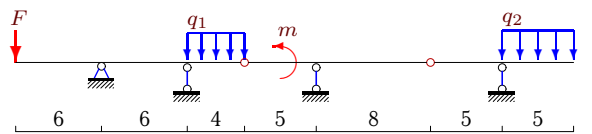
**Задача 29.7**



$m=4 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=8 \frac{\text{кН}}{\text{М}}, P=5 \text{ кН}$

29.4

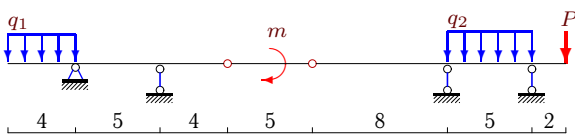
**Задача 29.8**



$m=9 \text{ кНм}, q_1=5 \frac{\text{кН}}{\text{М}}, q_2=6 \frac{\text{кН}}{\text{М}}, F=9 \text{ кН}$

29.4

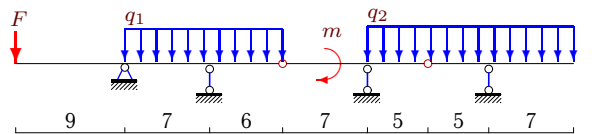
**Задача 29.9**



$m=2 \text{ кНм}, q_1=5 \frac{\text{кН}}{\text{М}}, q_2=6 \frac{\text{кН}}{\text{М}}, P=6 \text{ кН}$

29.4

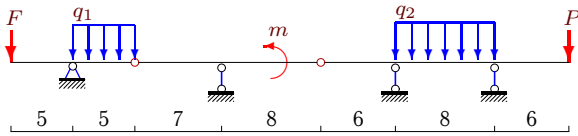
**Задача 29.10**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=8 \frac{\text{кН}}{\text{М}}, F=6 \text{ кН}$

29.4

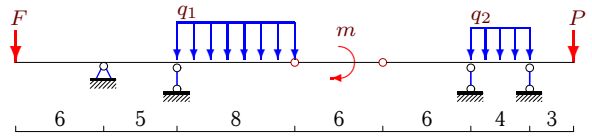
**Задача 29.11**



$m=4 \text{ кНм}, q_1=8 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}, F=7 \text{ кН}, P=9 \text{ кН}$

29.4

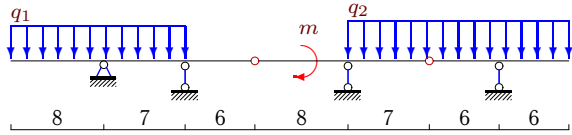
**Задача 29.12**



$m=2 \text{ кНм}, q_1=9 \frac{\text{кН}}{\text{М}}, q_2=7 \frac{\text{кН}}{\text{М}}, F=7 \text{ кН}, P=5 \text{ кН}$

29.4

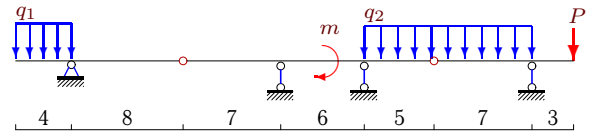
**Задача 29.13**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}$

29.4

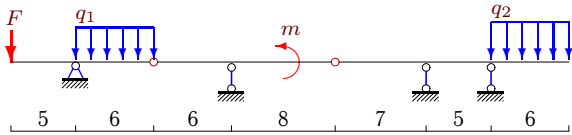
**Задача 29.14**



$m=6 \text{ кНм}, q_1=8 \frac{\text{кН}}{\text{М}}, q_2=7 \frac{\text{кН}}{\text{М}}, P=8 \text{ кН}$

29.4

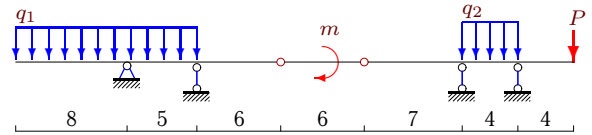
**Задача 29.15**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}, F=8 \text{ кН}$

29.4

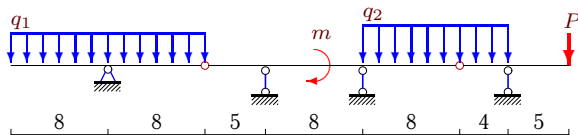
**Задача 29.16**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}, P=5 \text{ кН}$

29.4

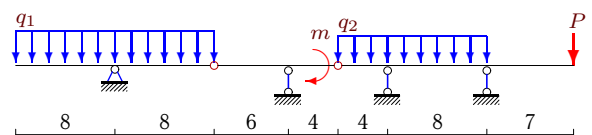
**Задача 29.17**



$m=6 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{М}}, q_2=9 \frac{\text{кН}}{\text{М}}, P=5 \text{ кН}$

29.4

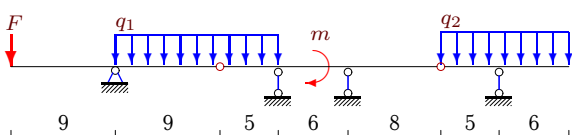
**Задача 29.18**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{М}}, q_2=5 \frac{\text{кН}}{\text{М}}, P=9 \text{ кН}$

29.4

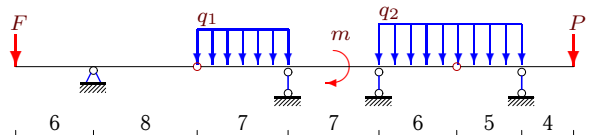
**Задача 29.19**



$m=8 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{М}}, q_2=7 \frac{\text{кН}}{\text{М}}, F=9 \text{ кН}$

29.4

**Задача 29.20**

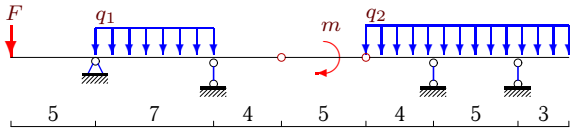


$m=6 \text{ кНм}, q_1=8 \frac{\text{кН}}{\text{М}}, q_2=10 \frac{\text{кН}}{\text{М}}, F=7 \text{ кН},$

$P=6 \text{ кН}$

29.4

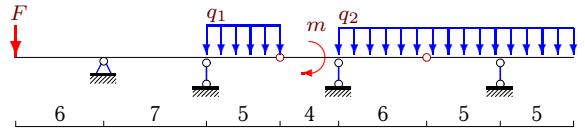
**Задача 29.21**



$m=6 \text{ кНм}, q_1=5 \frac{\text{кН}}{\text{м}}, q_2=6 \frac{\text{кН}}{\text{м}}, F=5 \text{ кН}$

29.4

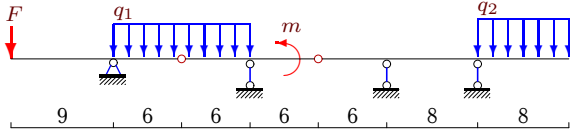
**Задача 29.22**



$m=2 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{м}}, q_2=5 \frac{\text{кН}}{\text{м}}, F=7 \text{ кН}$

29.4

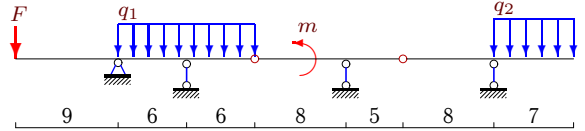
**Задача 29.23**



$m=2 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{м}}, q_2=9 \frac{\text{кН}}{\text{м}}, F=7 \text{ кН}$

29.4

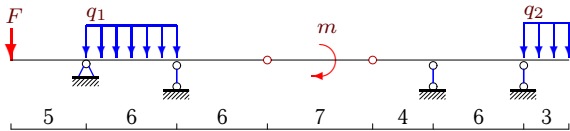
**Задача 29.24**



$m=9 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{м}}, q_2=9 \frac{\text{кН}}{\text{м}}, F=6 \text{ кН}$

29.4

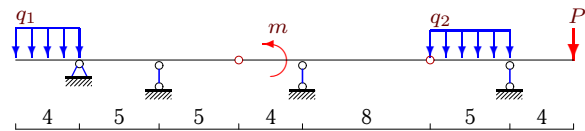
**Задача 29.25**



$m=4 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{м}}, q_2=8 \frac{\text{кН}}{\text{м}}, F=5 \text{ кН}$

29.4

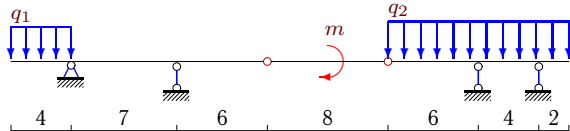
**Задача 29.26**



$m=2 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{м}}, q_2=5 \frac{\text{кН}}{\text{м}}, P=6 \text{ кН}$

29.4

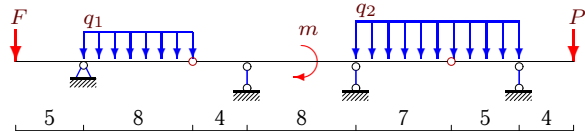
**Задача 29.27**



$m=6 \text{ кНм}, q_1=7 \frac{\text{кН}}{\text{м}}, q_2=9 \frac{\text{кН}}{\text{м}}$

29.4

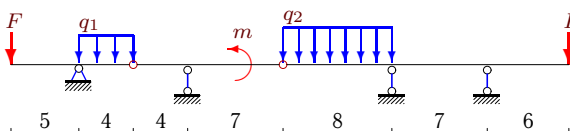
**Задача 29.28**



$m=6 \text{ кНм}, q_1=5 \frac{\text{кН}}{\text{м}}, q_2=9 \frac{\text{кН}}{\text{м}}, F=8 \text{ кН}, P=6 \text{ кН}$

29.4

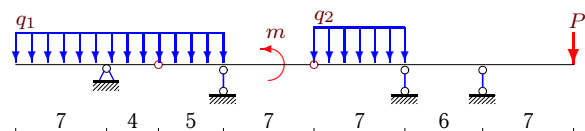
**Задача 29.29**



$m=6 \text{ кНм}, q_1=5 \frac{\text{кН}}{\text{м}}, q_2=8 \frac{\text{кН}}{\text{м}}, F=9 \text{ кН}, P=8 \text{ кН}$

29.4

**Задача 29.30**



$m=6 \text{ кНм}, q_1=6 \frac{\text{кН}}{\text{м}}, q_2=8 \frac{\text{кН}}{\text{м}}, P=7 \text{ кН}$

29.4

**Многопролетная балка**

	$R_1$	$R_2$	$R_3$	$R_4$
1	89	85.86	98.26	19.88
2	8.78	88.83	59.22	15.17
3	39	105.4	-74.4	100
4	39.9	54.24	3.66	33.2
5	30.26	-7.93	22.28	35.39
6	35.5	-6.33	37.17	38.67
7	86.91	23.73	40.86	12.5
8	-5.87	60.67	-40.8	45
9	28.32	-8.72	13.64	22.76
10	20.95	75.2	21.66	115.2
11	34	24.87	8.47	60.66
12	-41.67	120.33	11.08	22.25
13	136.34	-59.15	90.81	108
14	40	-50.48	98.55	35.93
15	35.67	25.33	-58.8	101.8
16	118.7	-28.03	13.92	27.42
17	96	-48.5	132.25	29.25
18	112	-0.5	37.88	31.62
19	45	84.43	-44.13	84.7
20	12.25	29.61	101.34	35.8
21	26.76	12.04	45.36	27.84
22	18.71	-4.71	53	50
23	38.5	84.33	-91.7	131.88
24	-3.35	111.7	-45.91	90.56
25	30.74	15.69	-5.05	29.62
26	48.5	-39.4	22.6	23.3
27	36.64	-9.4	109.88	-1.13
28	33	-21.3	117	33.3
29	30.25	-1.1	93.4	-21.55
30	90.75	-0.86	93.73	-24.63