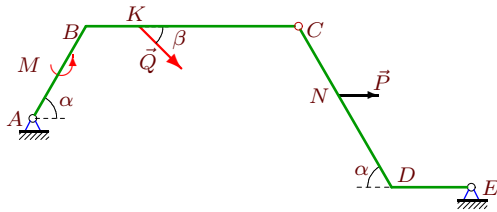


Составная конструкция

Определить реакции опор конструкции (в кН), состоящей из двух тел. Конструкция расположена в вертикальной плоскости. Дан погонный вес ρ .

Задача S7.1.

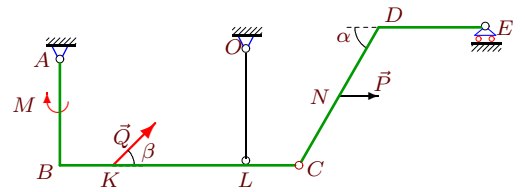
Арефьева Екатерина



$P = 4 \text{ кН}$, $Q = 3 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 4 \text{ м}$, $BC = 8 \text{ м}$, $CD = 7 \text{ м}$,
 $DE = 3 \text{ м}$, $CN = 3 \text{ м}$, $BK = 2 \text{ м}$.

Задача S7.2.

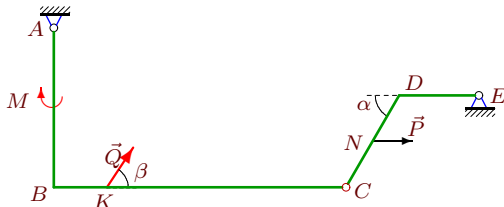
Васильев Владислав



$P = 6 \text{ кН}$, $Q = 8 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 9 \text{ м}$, $CD = 6 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $BK = 2 \text{ м}$, $LC = 2 \text{ м}$.

Задача S7.3.

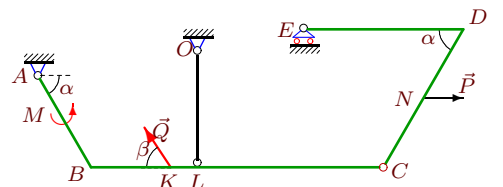
Гарифов Руслан



$P = 7 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 6 \text{ м}$, $BC = 11 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 3 \text{ м}$, $CN = 2 \text{ м}$, $BK = 2 \text{ м}$.

Задача S7.4.

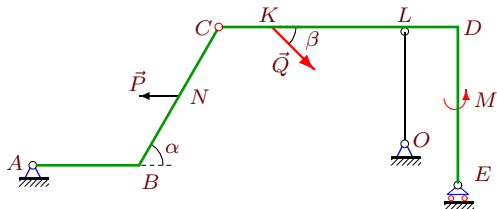
Ефимов Костя



$P = 8 \text{ кН}$, $Q = 3 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 4 \text{ м}$, $BC = 11 \text{ м}$, $CD = 6 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 3 \text{ м}$, $BK = 3 \text{ м}$, $LC = 7 \text{ м}$.

Задача S7.5.

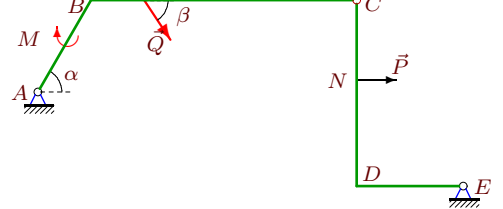
Завидный Антон



$P = 6 \text{ кН}$, $Q = 2 \text{ кН}$, $M = 5 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 6 \text{ м}$, $CD = 9 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.6.

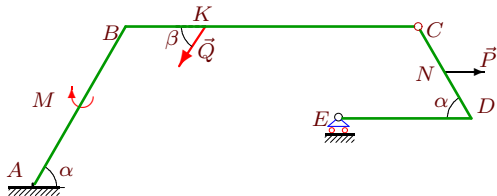
Колякина Лидия



$P = 6 \text{ кН}$, $Q = 1 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 10 \text{ м}$, $CD = 7 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $BK = 2 \text{ м}$.

Задача S7.7.

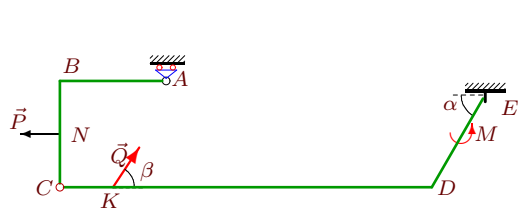
Масленков Антон



$P = 8 \text{ кН}$, $Q = 3 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 7 \text{ м}$, $BC = 11 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 5 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.

Задача S7.8.

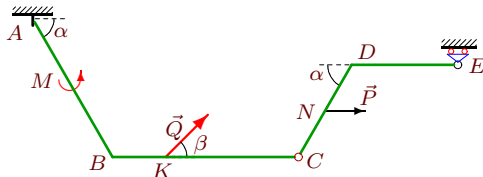
Павлов Роман



$P = 8 \text{ кН}$, $Q = 8 \text{ кН}$, $M = 7 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 4 \text{ м}$, $CD = 14 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$.

Задача S7.9.

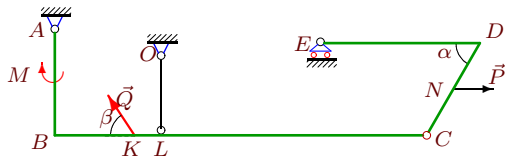
Попов Иван



$P = 7 \text{ кН}$, $Q = 5 \text{ кН}$, $M = 5 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 6 \text{ м}$, $BC = 7 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $BK = 2 \text{ м}$.

Задача S7.11.

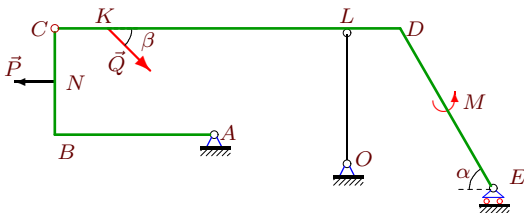
Светушков Алексей



$P = 7 \text{ кН}$, $Q = 7 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 14 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$, $LC = 10 \text{ м}$.

Задача S7.13.

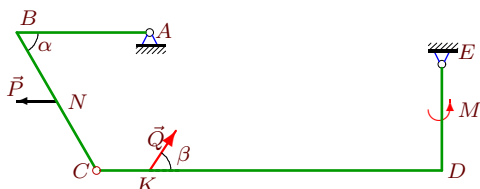
Фомин Владислав



$P = 5 \text{ кН}$, $Q = 9 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 6 \text{ м}$, $BC = 4 \text{ м}$, $CD = 13 \text{ м}$,
 $DE = 7 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.15.

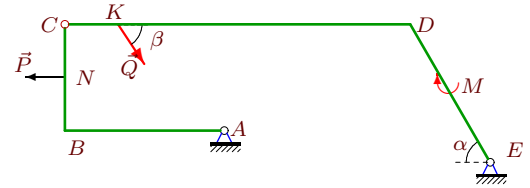
Ульянова Катя



$P = 7 \text{ кН}$, $Q = 1 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 5 \text{ м}$, $BC = 6 \text{ м}$, $CD = 13 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$.

Задача S7.10.

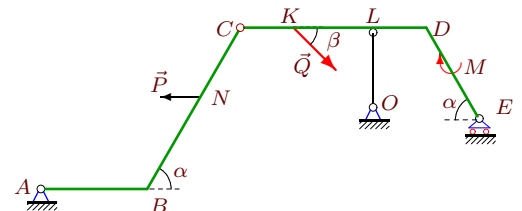
Руднев Никита



$P = 7 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 6 \text{ м}$, $BC = 4 \text{ м}$, $CD = 13 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$.

Задача S7.12.

Степанишин Дмитрий



$P = 6 \text{ кН}$, $Q = 4 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 7 \text{ м}$, $CD = 7 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

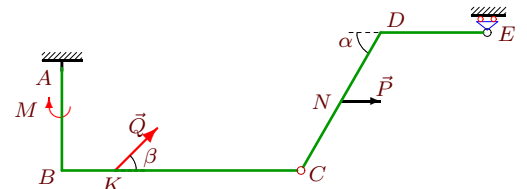
Задача S7.14.

Анохин Дмитрий



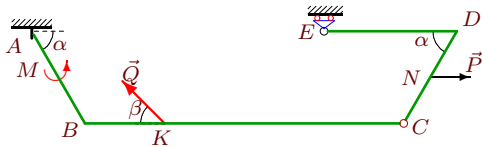
$P = 7 \text{ кН}$, $Q = 9 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 13 \text{ м}$, $CD = 7 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 3 \text{ м}$, $BK = 3 \text{ м}$.

Задача S7.16.



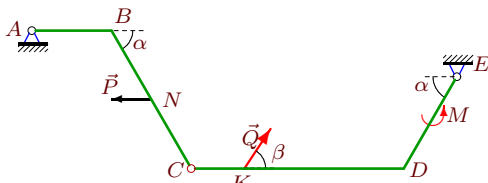
$P = 6 \text{ кН}$, $Q = 9 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 4 \text{ м}$, $BC = 9 \text{ м}$, $CD = 6 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $BK = 2 \text{ м}$.

Задача S7.17.



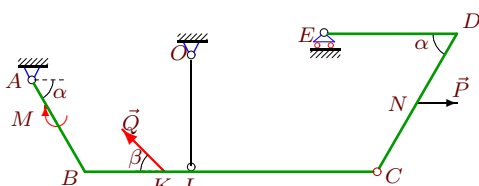
$P = 7 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 5 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 12 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 5 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.

Задача S7.19.



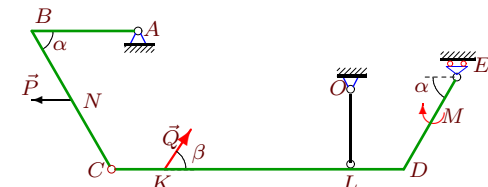
$P = 6 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 7 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 3 \text{ м}$, $BC = 6 \text{ м}$, $CD = 8 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$.

Задача S7.21.



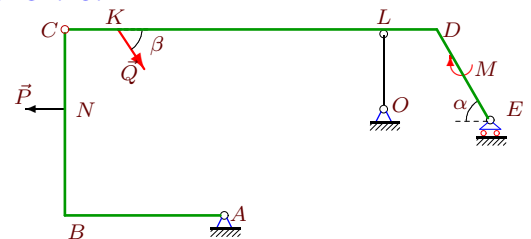
$P = 6 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 11 \text{ м}$, $CD = 6 \text{ м}$,
 $DE = 5 \text{ м}$, $CN = 3 \text{ м}$, $BK = 3 \text{ м}$, $LC = 7 \text{ м}$.

Задача S7.23.



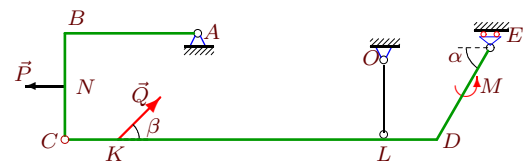
$P = 7 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 6 \text{ м}$, $CD = 11 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.18.



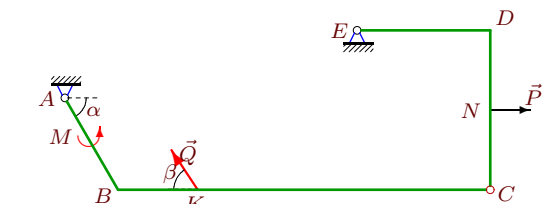
$P = 7 \text{ кН}$, $Q = 7 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 6 \text{ м}$, $BC = 7 \text{ м}$, $CD = 14 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.20.



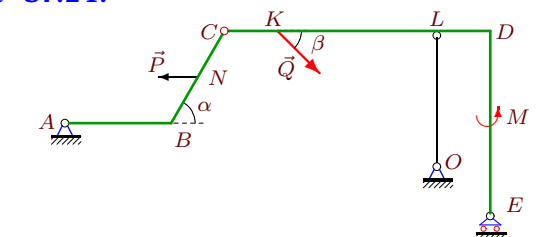
$P = 5 \text{ кН}$, $Q = 7 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 5 \text{ м}$, $BC = 4 \text{ м}$, $CD = 14 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.22.



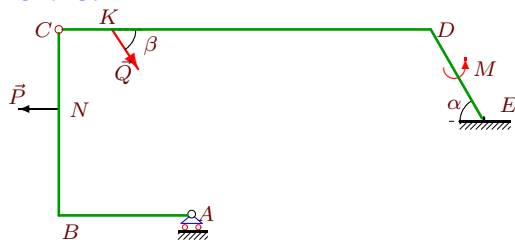
$P = 6 \text{ кН}$, $Q = 2 \text{ кН}$, $M = 7 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 14 \text{ м}$, $CD = 6 \text{ м}$,
 $DE = 5 \text{ м}$, $CN = 3 \text{ м}$, $BK = 3 \text{ м}$.

Задача S7.24.



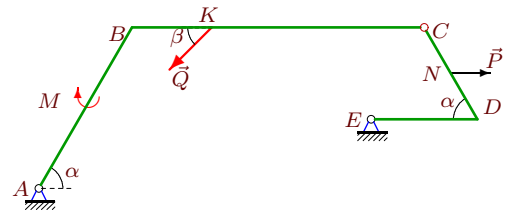
$P = 6 \text{ кН}$, $Q = 2 \text{ кН}$, $M = 5 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4 \text{ м}$, $BC = 4 \text{ м}$, $CD = 10 \text{ м}$,
 $DE = 7 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$, $LD = 2 \text{ м}$.

Задача S7.25.



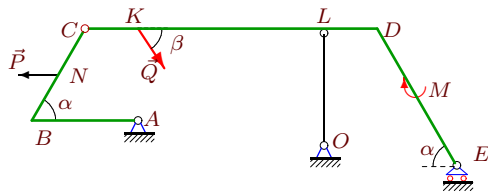
$P = 9 \text{ кН}$, $Q = 9 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 5 \text{ м}$, $BC = 7 \text{ м}$, $CD = 14 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$.

Задача S7.26.



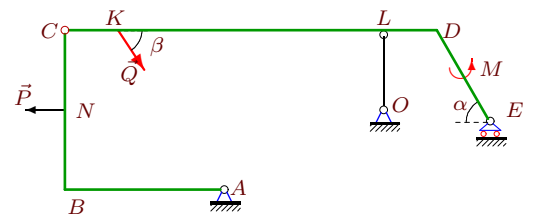
$P = 5 \text{ кН}$, $Q = 4 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 1 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 7 \text{ м}$, $BC = 11 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.

Задача S7.27.



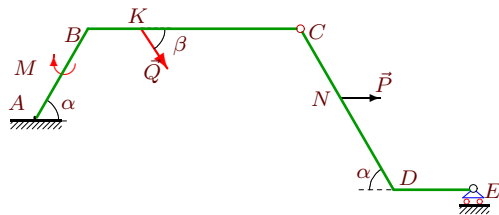
$P = 8 \text{ кН}$, $Q = 5 \text{ кН}$, $M = 6 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 4 \text{ м}$, $BC = 4 \text{ м}$, $CD = 11 \text{ м}$,
 $DE = 6 \text{ м}$, $CN = 2 \text{ м}$, $CK = 2 \text{ м}$. $LD = 2 \text{ м}$

Задача S7.28.



$P = 7 \text{ кН}$, $Q = 7 \text{ кН}$, $M = 7 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 6 \text{ м}$, $BC = 6 \text{ м}$, $CD = 14 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 3 \text{ м}$, $CK = 2 \text{ м}$. $LD = 2 \text{ м}$

Задача S7.29.



$P = 8 \text{ кН}$, $Q = 5 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 4 \text{ м}$, $BC = 8 \text{ м}$, $CD = 7 \text{ м}$,
 $DE = 3 \text{ м}$, $CN = 3 \text{ м}$, $BK = 2 \text{ м}$.