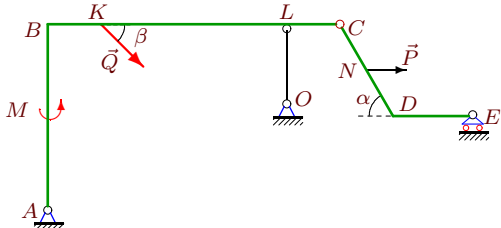


Составная конструкция

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

Задача S-7.1.

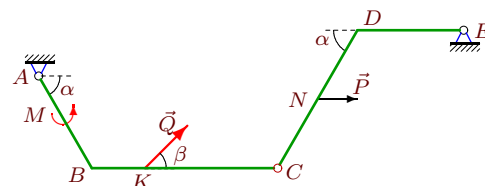
Баярбат Оюундэлгэр



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

Задача S-7.2.

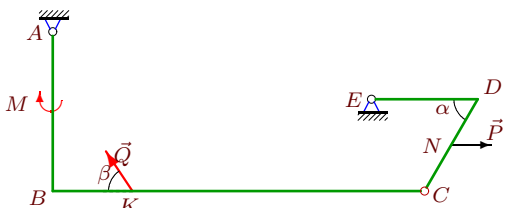
Голубовская Диана



$P = 4$ кН, $Q = 5$ кН, $M = 3$ кНм,
 $\rho = 1$ кН/м, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 4$ м, $BC = 7$ м, $CD = 6$ м,
 $DE = 4$ м, $CN = 3$ м, $BK = 2$ м.

Задача S-7.3.

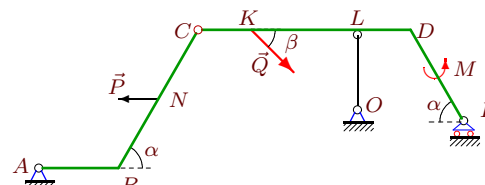
Гонсоронов Дамба



$P = 6$ кН, $Q = 8$ кН, $M = 3$ кНм,
 $\rho = 1$ кН/м, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 6$ м, $BC = 14$ м, $CD = 4$ м,
 $DE = 4$ м, $CN = 2$ м, $BK = 3$ м.

Задача S-7.4.

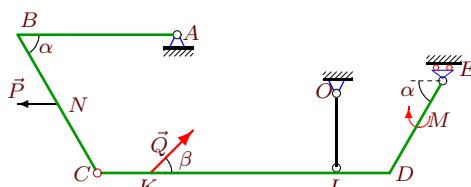
Долгих Дарья



$P = 5$ кН, $Q = 5$ кН, $M = 3$ кНм,
 $\rho = 2$ кН/м, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 3$ м, $BC = 6$ м, $CD = 8$ м,
 $DE = 4$ м, $CN = 3$ м, $CK = 2$ м. $LD = 2$ м.

Задача S-7.5.

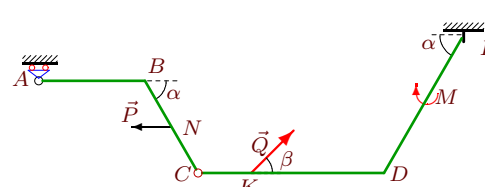
Звягинцева Алёна



$P = 6$ кН, $Q = 5$ кН, $M = 6$ кНм,
 $\rho = 2$ кН/м, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 6$ м, $BC = 6$ м, $CD = 11$ м,
 $DE = 4$ м, $CN = 3$ м, $CK = 2$ м. $LD = 2$ м.

Задача S-7.6.

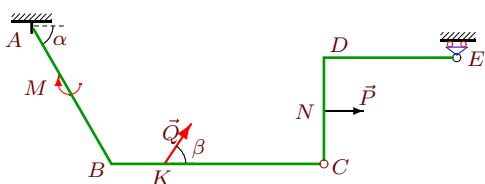
Зогина Екатерина



$P = 7$ кН, $Q = 3$ кН, $M = 9$ кНм,
 $\rho = 3$ кН/м, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 4$ м, $BC = 4$ м, $CD = 7$ м,
 $DE = 6$ м, $CN = 2$ м, $CK = 2$ м.

Задача S-7.7.

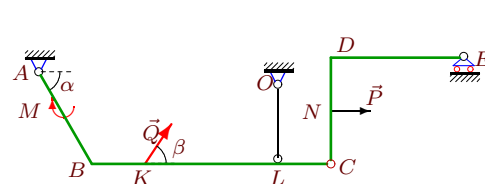
Исаков Александр



$P = 9$ кН, $Q = 2$ кН, $M = 9$ кНм,
 $\rho = 3$ кН/м, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 6$ м, $BC = 8$ м, $CD = 4$ м,
 $DE = 5$ м, $CN = 2$ м, $BK = 2$ м.

Задача S-7.8.

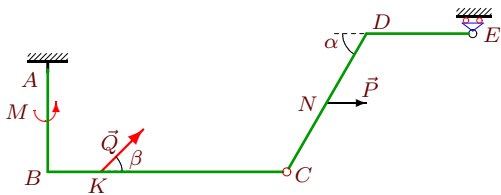
Кобалля Давид



$P = 8$ кН, $Q = 2$ кН, $M = 6$ кНм,
 $\rho = 2$ кН/м, $\alpha = 60^\circ$, $\beta = 75^\circ$,
 $AB = 4$ м, $BC = 9$ м, $CD = 4$ м,
 $DE = 5$ м, $CN = 2$ м, $BK = 2$ м. $LC = 2$ м.

Задача S-7.9.

Лошакова Аллина



$P = 7 \text{ кН}, Q = 7 \text{ кН}, M = 5 \text{ кНм},$
 $\rho = 3 \text{ кН/м}, \alpha = 60^\circ, \beta = 45^\circ,$
 $AB = 4 \text{ м}, BC = 9 \text{ м}, CD = 6 \text{ м},$
 $DE = 4 \text{ м}, CN = 3 \text{ м}, BK = 2 \text{ м}.$

Задача S-7.10.

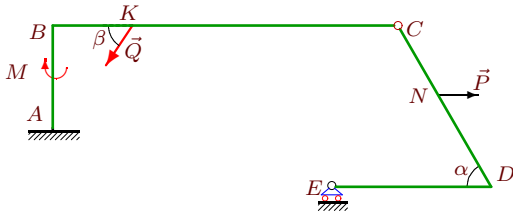
Молчанов Леонид



$P = 9 \text{ кН}, Q = 4 \text{ кН}, M = 9 \text{ кНм},$
 $\rho = 3 \text{ кН/м}, \alpha = 60^\circ, \beta = 75^\circ,$
 $AB = 4 \text{ м}, BC = 4 \text{ м}, CD = 12 \text{ м},$
 $DE = 4 \text{ м}, CN = 2 \text{ м}, CK = 2 \text{ м}.$

Задача S-7.11.

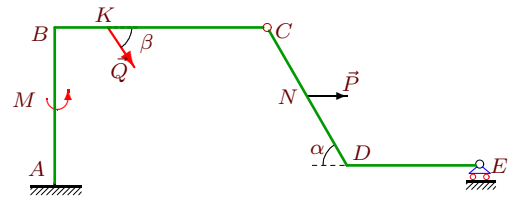
Нечаев Алексей



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

Задача S-7.12.

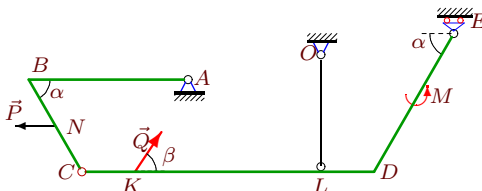
Павлов Алексей



$P = 9 \text{ кН}, Q = 7 \text{ кН}, M = 9 \text{ кНм},$
 $\rho = 3 \text{ кН/м}, \alpha = 60^\circ, \beta = 75^\circ,$
 $AB = 6 \text{ м}, BC = 8 \text{ м}, CD = 6 \text{ м},$
 $DE = 5 \text{ м}, CN = 3 \text{ м}, BK = 2 \text{ м}.$

Задача S-7.13.

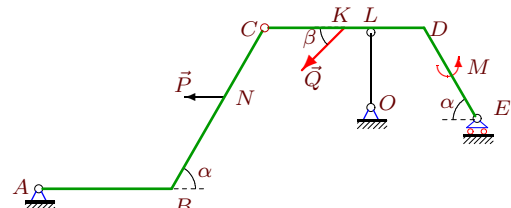
Попов Максим



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

Задача S-7.14.

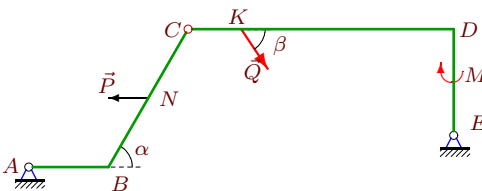
Рябов Максим



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

Задача S-7.15.

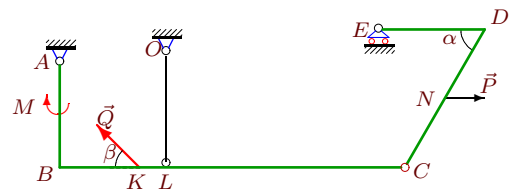
Семин Евгений



$P = 7 \text{ кН}, Q = 2 \text{ кН}, M = 3 \text{ кНм},$
 $\rho = 1 \text{ кН/м}, \alpha = 60^\circ, \beta = 75^\circ,$
 $AB = 3 \text{ м}, BC = 6 \text{ м}, CD = 10 \text{ м},$
 $DE = 4 \text{ м}, CN = 3 \text{ м}, CK = 2 \text{ м}.$

Задача S-7.16.

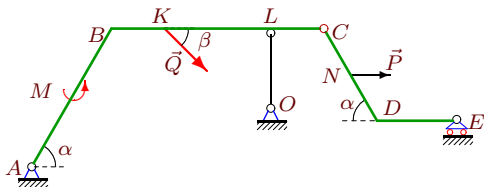
Сорокин Никита



$P = 6 \text{ кН}, Q = 9 \text{ кН}, M = 6 \text{ кНм},$
 $\rho = 2 \text{ кН/м}, \alpha = 60^\circ, \beta = 45^\circ,$
 $AB = 4 \text{ м}, BC = 13 \text{ м}, CD = 6 \text{ м},$
 $DE = 4 \text{ м}, CN = 3 \text{ м}, BK = 3 \text{ м}. LC = 9 \text{ м}.$

Задача S-7.17.

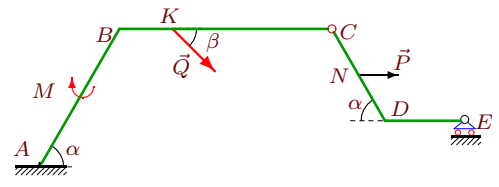
Сучков Павел



$P = 5 \text{ кН}$, $Q = 5 \text{ кН}$, $M = 3 \text{ кНм}$,
 $\rho = 2 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 6 \text{ м}$, $BC = 8 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 3 \text{ м}$, $CN = 2 \text{ м}$, $BK = 2 \text{ м}$. $LC = 2 \text{ м}$.

Задача S-7.18.

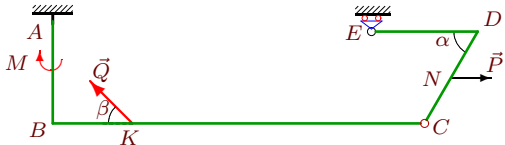
Федорова Кристина



$P = 7 \text{ кН}$, $Q = 3 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 45^\circ$,
 $AB = 6 \text{ м}$, $BC = 8 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 3 \text{ м}$, $CN = 2 \text{ м}$, $BK = 2 \text{ м}$.

Задача S-7.19.

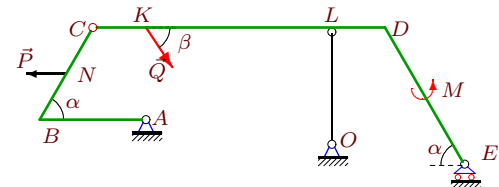
Харизин Павел



$P = 6 \text{ кН}$, $Q = 6 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 4 \text{ м}$, $BC = 14 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.

Задача S-7.20.

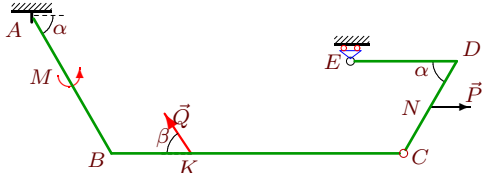
Цой Алексей



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

Задача S-7.21.

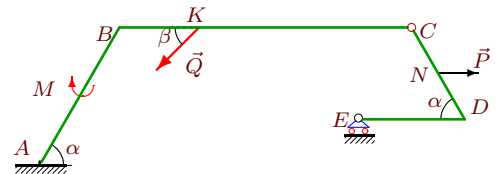
Чичкань Иван



$P = 8 \text{ кН}$, $Q = 5 \text{ кН}$, $M = 7 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 60^\circ$,
 $AB = 6 \text{ м}$, $BC = 11 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.

Задача S-7.22.

Хазеков Максим



$P = 6 \text{ кН}$, $Q = 4 \text{ кН}$, $M = 9 \text{ кНм}$,
 $\rho = 3 \text{ кН/м}$, $\alpha = 60^\circ$, $\beta = 30^\circ$,
 $AB = 6 \text{ м}$, $BC = 11 \text{ м}$, $CD = 4 \text{ м}$,
 $DE = 4 \text{ м}$, $CN = 2 \text{ м}$, $BK = 3 \text{ м}$.