

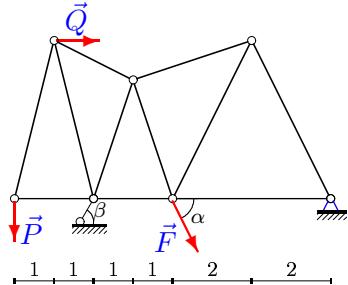
Расчет фермы (треугольная решетка)

Найти усилия в стержнях плоской фермы. Размеры даны в метрах.

Кирсанов М.Н. Решебник. Теоретическая механика /Под ред. А. И. Кириллова.—
М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.45.)

Задача S-6.1.

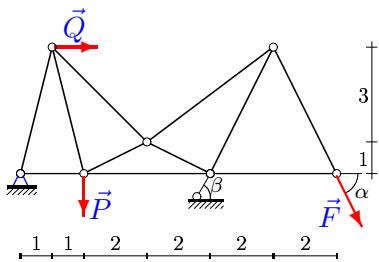
Баярбат Оюундэлгэр



$$\begin{aligned}P &= 5 \text{ кн}, \\F &= 33 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 35^\circ, \\\beta &= 30^\circ.\end{aligned}$$

Задача S-6.3.

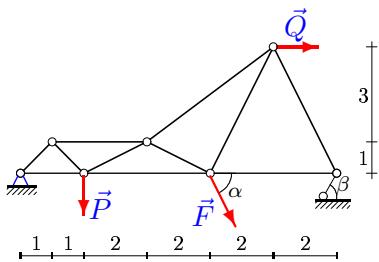
Гонсоронов Дамба



$$\begin{aligned}P &= 30 \text{ кн}, \\F &= 26 \text{ кн}, \\Q &= 60 \text{ кн}, \\\alpha &= 60^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.5.

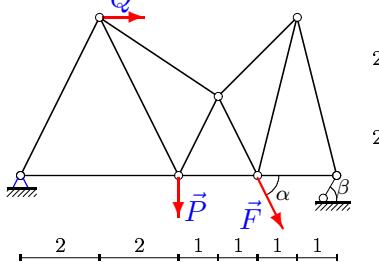
Звягинцева Алёна



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 8 \text{ кн}, \\Q &= 60 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.7.

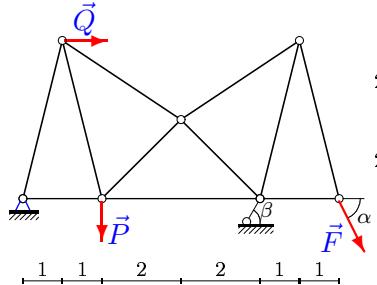
Исаев Александр



$$\begin{aligned}P &= 30 \text{ кн}, \\F &= 24 \text{ кн}, \\Q &= 10 \text{ кн}, \\\alpha &= 60^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.2.

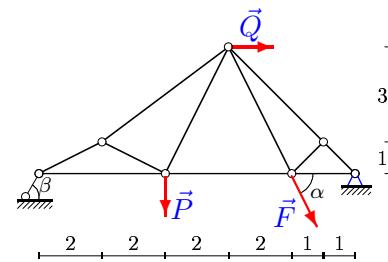
Голубовская Диана



$$\begin{aligned}P &= 10 \text{ кн}, \\F &= 13 \text{ кн}, \\Q &= 20 \text{ кн}, \\\alpha &= 40^\circ, \\\beta &= 30^\circ.\end{aligned}$$

Задача S-6.4.

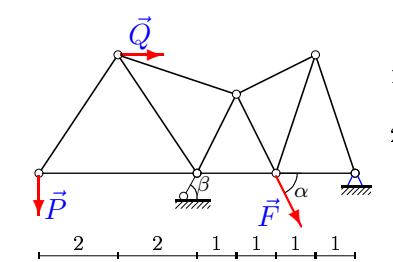
Долгих Дарья



$$\begin{aligned}P &= 40 \text{ кн}, \\F &= 14 \text{ кн}, \\Q &= 30 \text{ кн}, \\\alpha &= 70^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.6.

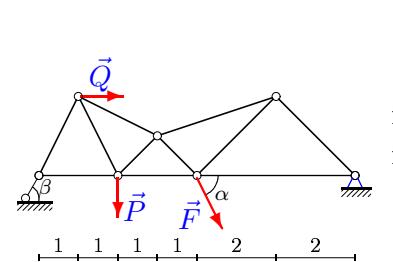
Зогина Екатерина



$$\begin{aligned}P &= 15 \text{ кн}, \\F &= 28 \text{ кн}, \\Q &= 10 \text{ кн}, \\\alpha &= 45^\circ, \\\beta &= 30^\circ.\end{aligned}$$

Задача S-6.8.

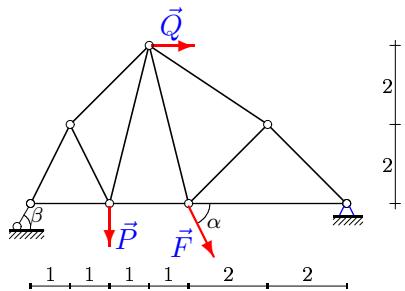
Кобалия Давид



$$\begin{aligned}P &= 20 \text{ кн}, \\F &= 21 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 50^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.9.

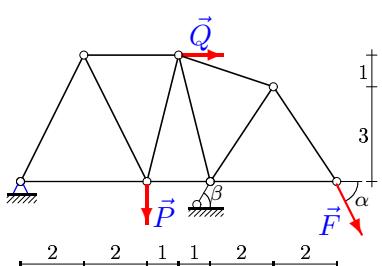
Лошакова Алина



$$\begin{aligned}P &= 30 \text{ кн}, \\F &= 5 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 60^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.11.

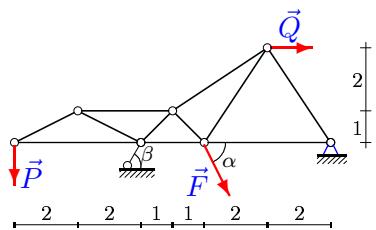
Нечаев Алексей



$$\begin{aligned}P &= 10 \text{ кн}, \\F &= 21 \text{ кн}, \\Q &= 50 \text{ кн}, \\\alpha &= 40^\circ, \\\beta &= 30^\circ.\end{aligned}$$

Задача S-6.13.

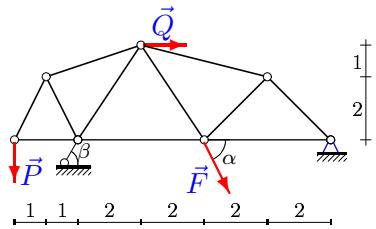
Попов Максим



$$\begin{aligned}P &= 40 \text{ кн}, \\F &= 15 \text{ кн}, \\Q &= 50 \text{ кн}, \\\alpha &= 70^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.15.

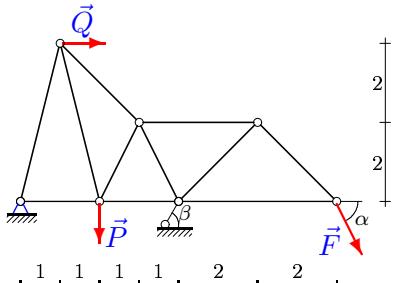
Семин Евгений



$$\begin{aligned}P &= 25 \text{ кн}, \\F &= 10 \text{ кн}, \\Q &= 60 \text{ кн}, \\\alpha &= 55^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.17.

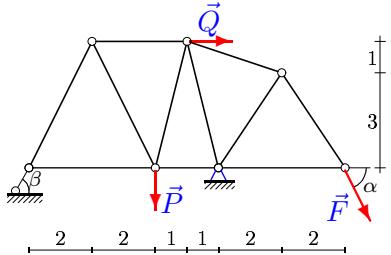
Сучиков Павел



$$\begin{aligned}P &= 15 \text{ кн}, \\F &= 19 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 45^\circ, \\\beta &= 30^\circ.\end{aligned}$$

Задача S-6.10.

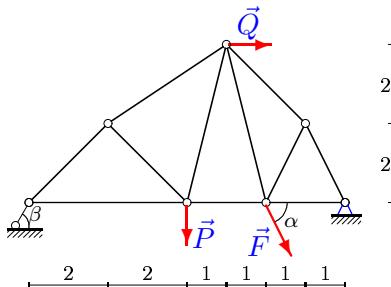
Молчанов Леонид



$$\begin{aligned}P &= 20 \text{ кн}, \\F &= 7 \text{ кн}, \\Q &= 50 \text{ кн}, \\\alpha &= 50^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.12.

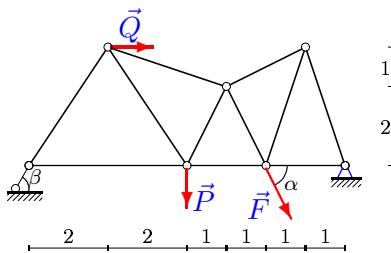
Павлов Алексей



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 9 \text{ кн}, \\Q &= 10 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.14.

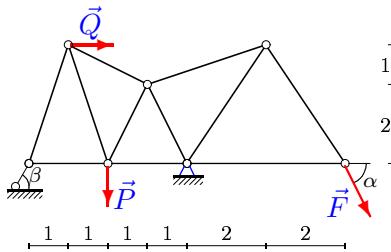
Рябов Максим



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 3 \text{ кн}, \\Q &= 10 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.16.

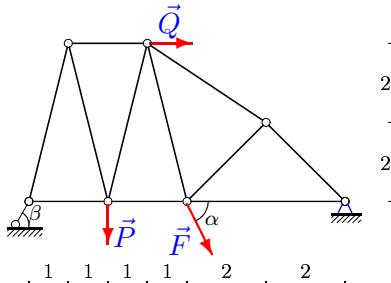
Сорокин Никита



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 9 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.18.

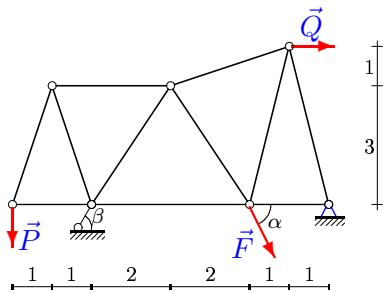
Федорова Кристина



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 21 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$

Задача S-6.19.

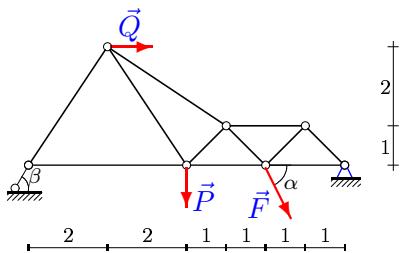
Харизин Павел



$$\begin{aligned}P &= 35 \text{ кн}, \\F &= 4 \text{ кн}, \\Q &= 20 \text{ кн}, \\\alpha &= 65^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.21.

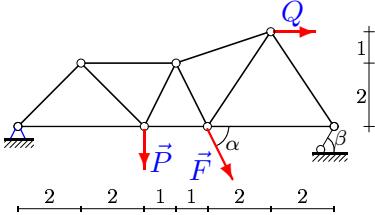
Чичкань Иван



$$\begin{aligned}P &= 20 \text{ кн}, \\F &= 28 \text{ кн}, \\Q &= 10 \text{ кн}, \\\alpha &= 50^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.20.

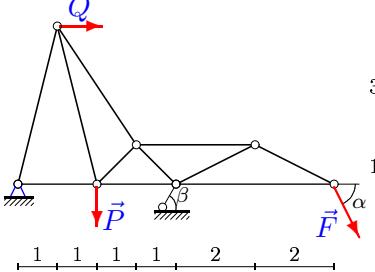
Цой Алексей



$$\begin{aligned}P &= 25 \text{ кн}, \\F &= 24 \text{ кн}, \\Q &= 50 \text{ кн}, \\\alpha &= 55^\circ, \\\beta &= 45^\circ.\end{aligned}$$

Задача S-6.22.

Хазеков Максим



$$\begin{aligned}P &= 45 \text{ кн}, \\F &= 24 \text{ кн}, \\Q &= 40 \text{ кн}, \\\alpha &= 75^\circ, \\\beta &= 60^\circ.\end{aligned}$$