

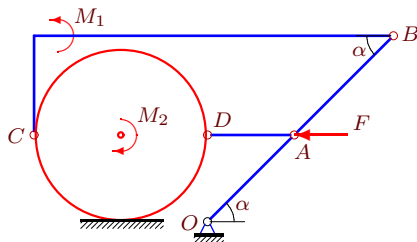
Принцип возможных перемещений (2)

Механизм с идеальными стационарными связями находится в равновесии под действием силы F и моментов M_1, M_2 . Длины звеньев даны в сантиметрах. Стержни, направление которых не указано, считать горизонтальными или вертикальными. Диск касается горизонтальной поверхности без проскальзывания. Найти величину F .

Курсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)

Задача D-24.1.

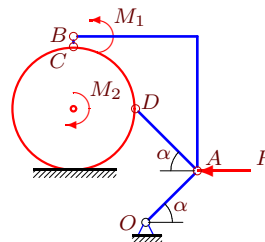
Аленичев Вячеслав



$$M_1 = 39, M_2 = 124, R = 7, OA = 7\sqrt{2}, \\ AB = 8\sqrt{2}, AD = 7, \alpha = 45^\circ.$$

Задача D-24.2.

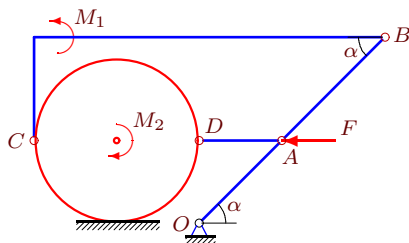
Андреев Игорь



$$M_1 = 170, M_2 = 295, R = 6, OA = 5\sqrt{2}, \\ AD = 6\sqrt{2}, BC = 1, \alpha = 45^\circ.$$

Задача D-24.3.

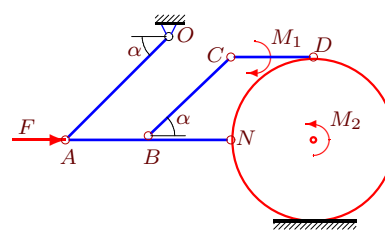
Бастрыгин Андрей



$$M_1 = 21, M_2 = 34, R = 4, OA = 4\sqrt{2}, \\ AB = 5\sqrt{2}, AD = 4, \alpha = 45^\circ.$$

Задача D-24.4.

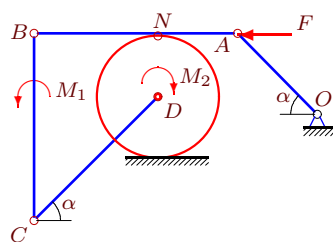
Белянкин Никита



$$M_1 = 45, M_2 = 55, R = 4, OA = 5\sqrt{2}, \\ AB = 4, BN = 4, BC = 4\sqrt{2}, CD = 4, \alpha = 45^\circ$$

Задача D-24.5.

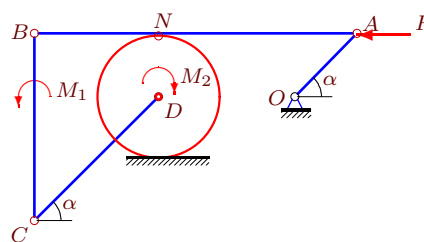
Бойко Андрей



$$M_1 = 351, M_2 = 397, R = 7, OA = 9\sqrt{2}, \\ CD = 14\sqrt{2}, AN = 9, AB = 23, \alpha = 45^\circ.$$

Задача D-24.6.

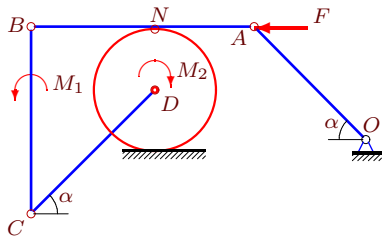
Горбунова Алиса



$$M_1 = 152, M_2 = 474, R = 5, OA = 5\sqrt{2}, \\ CD = 10\sqrt{2}, AN = 16, AB = 26, \alpha = 45^\circ.$$

Задача D-24.7.

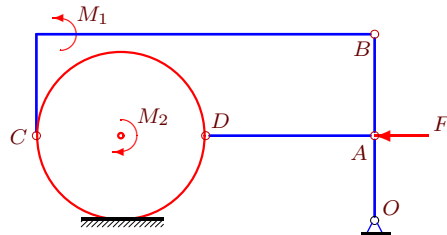
Иванова Любовь



$$M_1 = 324, M_2 = 378, R = 5, OA = 9\sqrt{2}, CD = 10\sqrt{2}, AN = 8, AB = 18, \alpha = 45^\circ.$$

Задача D-24.8.

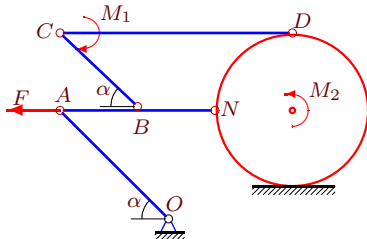
Коржова Валерия



$$M_1 = 56, M_2 = 79, R = 5, OA = 5, AB = 6, AD = 10.$$

Задача D-24.9.

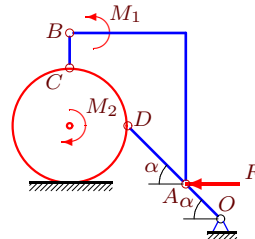
Лафицкова Марина



$$M_1 = 504, M_2 = 406, R = 5, OA = 7\sqrt{2}, AB = 5, BN = 5, BC = 5\sqrt{2}, CD = 15, \alpha = 45^\circ$$

Задача D-24.10.

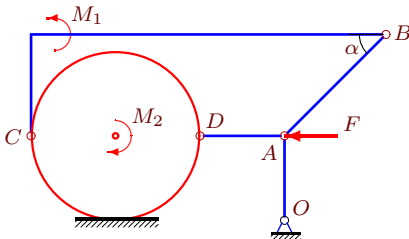
Лепетюха Варвара



$$M_1 = 90, M_2 = 123, R = 5, OA = 3\sqrt{2}, AD = 5\sqrt{2}, BC = 3, \alpha = 45^\circ.$$

Задача D-24.11.

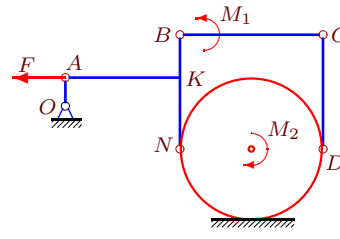
Лукина Валерия



$$M_1 = 42, M_2 = 59, R = 5, OA = 5, AB = 6\sqrt{2}, AD = 5, \alpha = 45^\circ.$$

Задача D-24.12.

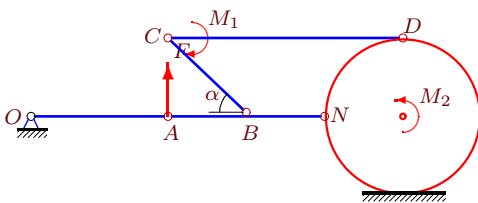
Мамедов Шахмар



$$M_1 = 44, M_2 = 134, R = 5, OA = 2, AK = 8, BK = 3, KN = 5, CD = 8.$$

Задача D-24.13.

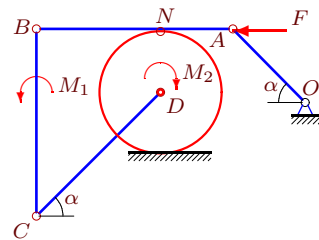
Никитина Анастасия



$$M_1 = 504, M_2 = 511, R = 4, OA = 7, AB = 4, BN = 4, BC = 4\sqrt{2}, CD = 12, \alpha = 45^\circ$$

Задача D-24.14.

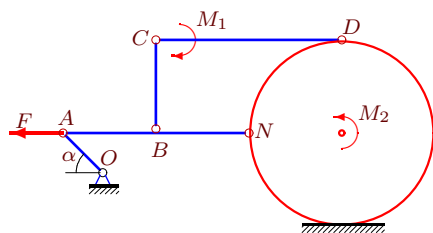
Подмосковная Валерия



$$M_1 = 231, M_2 = 269, R = 6, OA = 7\sqrt{2}, CD = 12\sqrt{2}, AN = 7, AB = 19, \alpha = 45^\circ.$$

Задача D-24.15.

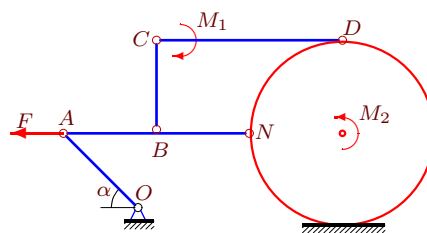
Семенов Иван



$M_1 = 78$, $M_2 = 249$, $R = 7$, $OA = 3\sqrt{2}$,
 $AB = 7$, $BN = BC = 7$, $CD = 14$, $\alpha = 45^\circ$

Задача D-24.16.

Трушкин Евгений



$M_1 = 36$, $M_2 = 78$, $R = 5$, $OA = 4\sqrt{2}$,
 $AB = 5$, $BN = BC = 5$, $CD = 10$, $\alpha = 45^\circ$