

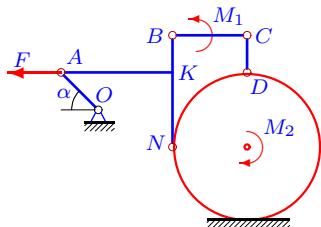
Принцип возможных перемещений (2)

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 .

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

Задача D-34.1.

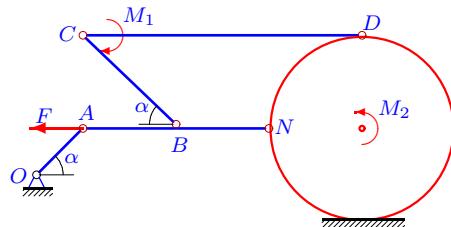
Акулина Даши



$$M_1 = 17, M_2 = 35, R = 6, OA = 3\sqrt{2}, \\ AK = 9, BK = 3, KN = 6, CD = 3, \alpha = 45^\circ.$$

Задача D-34.2.

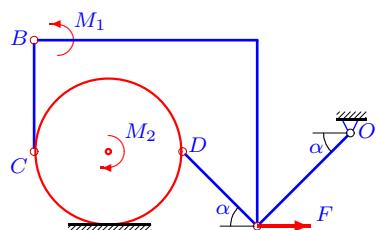
Анарабаев Б.



$$M_1 = 33, M_2 = 89, R = 6, OA = 3\sqrt{2}, \\ AB = 6, BN = 6, BC = 6\sqrt{2}, CD = 18, \alpha = 45^\circ$$

Задача D-34.3.

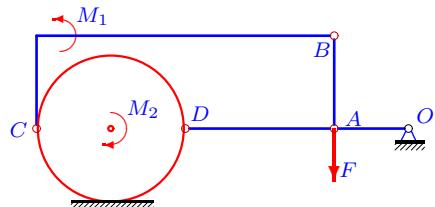
Баранов Максим



$$M_1 = 945, M_2 = 570, R = 4, OA = 5\sqrt{2}, \\ AD = 4\sqrt{2}, BC = 6, \alpha = 45^\circ.$$

Задача D-34.4.

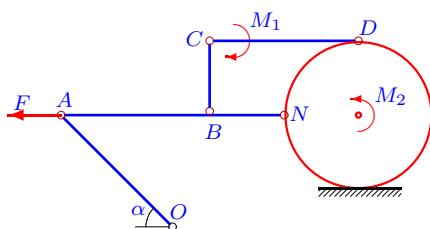
Бебирли Эмиль



$$M_1 = 80, M_2 = 49, R = 4, OA = 4, \\ AB = 5, AD = 8.$$

Задача D-34.5.

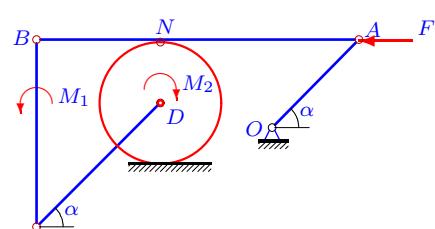
Биль Евгений



$$M_1 = 90, M_2 = 69, R = 4, OA = 6\sqrt{2}, \\ AB = 8, BN = BC = 4, CD = 8, \alpha = 45^\circ$$

Задача D-34.6.

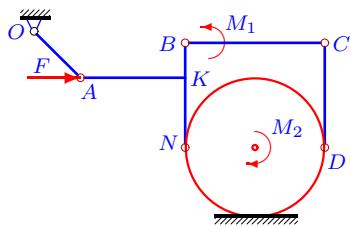
Волкобой Илья



$$M_1 = 504, M_2 = 518, R = 5, OA = 7\sqrt{2}, \\ CD = 10\sqrt{2}, AN = 16, AB = 26, \alpha = 45^\circ.$$

Задача D-34.7.

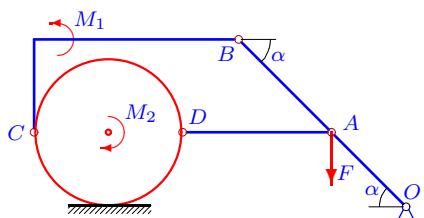
Глядяев А.Д.



$$M_1 = 26, M_2 = 74, R = 6, OA = 4\sqrt{2}, \\ AK = 9, BK = 3, KN = 6, CD = 9, \alpha = 45^\circ.$$

Задача D-34.9.

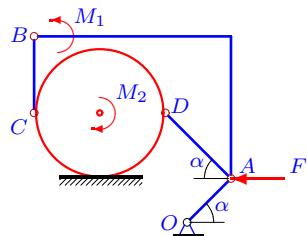
Губин Иван



$$M_1 = 15, M_2 = 12, R = 4, OA = 4\sqrt{2}, \\ AB = 5\sqrt{2}, AD = 8, \alpha = 45^\circ.$$

Задача D-34.11.

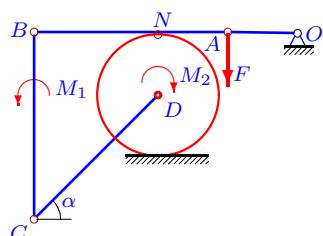
Исааков Александр



$$M_1 = 210, M_2 = 224, R = 6, OA = 4\sqrt{2}, \\ AD = 6\sqrt{2}, BC = 7, \alpha = 45^\circ.$$

Задача D-34.13.

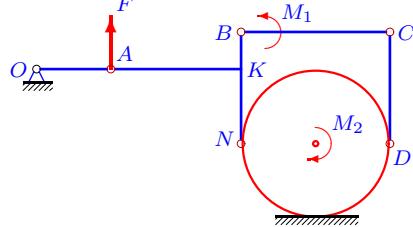
Костина Даши



$$M_1 = 162, M_2 = 137, R = 8, OA = 9, \\ CD = 16\sqrt{2}, AN = 9, AB = 25, \alpha = 45^\circ.$$

Задача D-34.8.

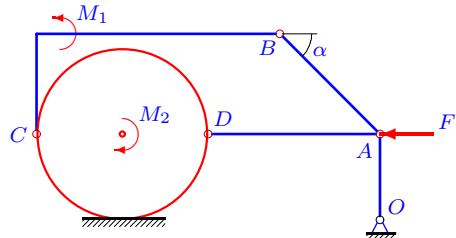
Горбатенко Егор



$$M_1 = 32, M_2 = 44, R = 4, OA = 4, \\ AK = 7, BK = 2, KN = 4, CD = 6.$$

Задача D-34.10.

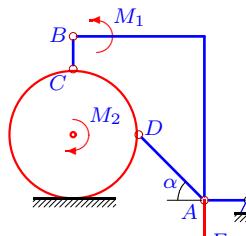
Драгин Егор



$$M_1 = 68, M_2 = 119, R = 6, OA = 6, \\ AB = 7\sqrt{2}, AD = 12, \alpha = 45^\circ.$$

Задача D-34.12.

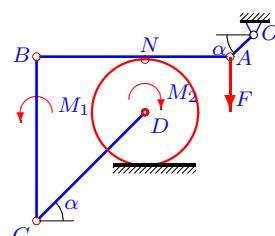
Картушкин Александр



$$M_1 = 37, M_2 = 61, R = 6, OA = 4, \\ AD = 6\sqrt{2}, BC = 3, \alpha = 45^\circ.$$

Задача D-34.14.

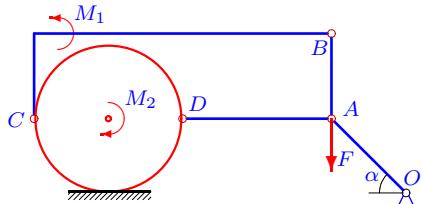
Лбова Александра



$$M_1 = 495, M_2 = 501, R = 7, OA = 3\sqrt{2}, \\ CD = 14\sqrt{2}, AN = 11, AB = 25, \alpha = 45^\circ.$$

Задача D-34.15.

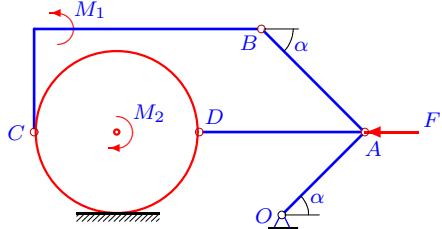
Муржи Николай



$$M_1 = 27, M_2 = 42, R = 7, OA = 7\sqrt{2}, AB = 8, AD = 14, \alpha = 45^\circ.$$

Задача D-34.17.

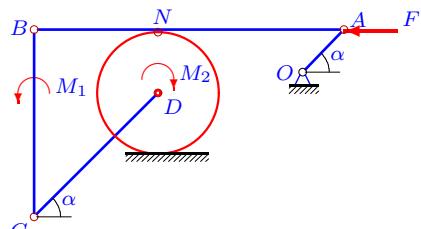
Новиков Павел



$$M_1 = 14, M_2 = 23, R = 4, OA = 4\sqrt{2}, AB = 5\sqrt{2}, AD = 8, \alpha = 45^\circ.$$

Задача D-34.19.

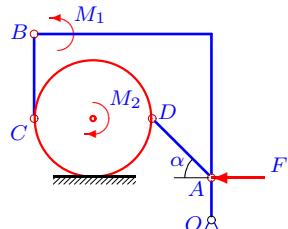
Оршак Сергей



$$M_1 = 99, M_2 = 425, R = 6, OA = 4\sqrt{2}, CD = 12\sqrt{2}, AN = 18, AB = 30, \alpha = 45^\circ.$$

Задача D-34.21.

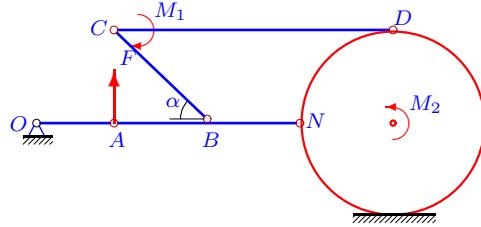
Парохин Антон



$$M_1 = 615, M_2 = 1255, R = 7, OA = 5, AD = 7\sqrt{2}, BC = 10, \alpha = 45^\circ.$$

Задача D-34.16.

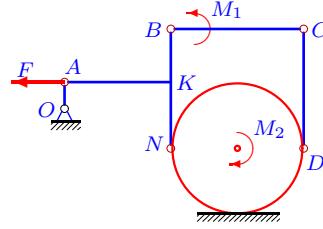
Никитенков Федор



$$M_1 = 360, M_2 = 905, R = 6, OA = 5, AB = 6, BN = 6, BC = 6\sqrt{2}, CD = 18, \alpha = 45^\circ$$

Задача D-34.18.

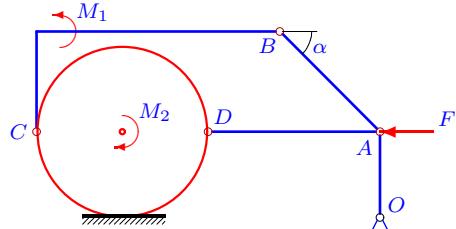
Опитеев Владислав



$$M_1 = 104, M_2 = 134, R = 5, OA = 2, AK = 8, BK = 4, KN = 5, CD = 9.$$

Задача D-34.20.

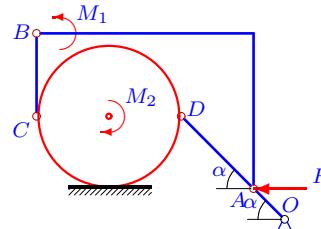
Парашин Андрей



$$M_1 = 68, M_2 = 119, R = 6, OA = 6, AB = 7\sqrt{2}, AD = 12, \alpha = 45^\circ.$$

Задача D-34.22.

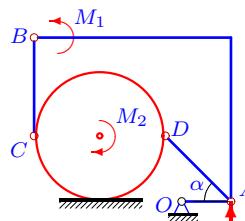
Пархоменко Иван



$$M_1 = 252, M_2 = 508, R = 7, OA = 3\sqrt{2}, AD = 7\sqrt{2}, BC = 8, \alpha = 45^\circ.$$

Задача D-34.23.

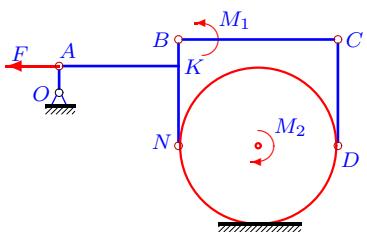
Петров Кирилл



$$M_1 = 45, M_2 = 69, R = 4, OA = 3, AD = 4\sqrt{2}, BC = 6, \alpha = 45^\circ.$$

Задача D-34.25.

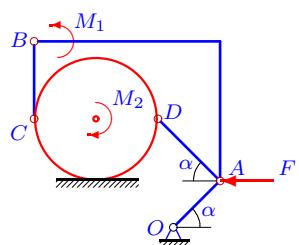
Руфин Никита



$$M_1 = 21, M_2 = 33, R = 6, OA = 2, AK = 9, BK = 2, KN = 6, CD = 8.$$

Задача D-34.27.

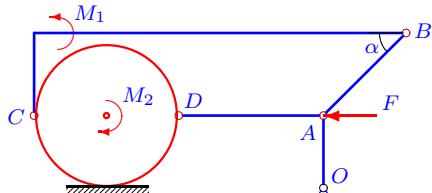
Семенова Ирина



$$M_1 = 165, M_2 = 170, R = 4, OA = 3\sqrt{2}, AD = 4\sqrt{2}, BC = 5, \alpha = 45^\circ.$$

Задача D-34.29.

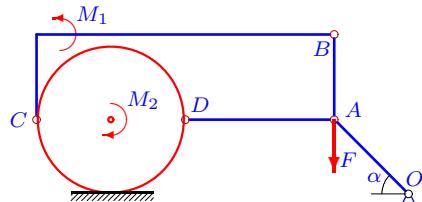
Сюлюкин Кирилл



$$M_1 = 80, M_2 = 167, R = 7, OA = 7, AB = 8\sqrt{2}, AD = 14, \alpha = 45^\circ.$$

Задача D-34.24.

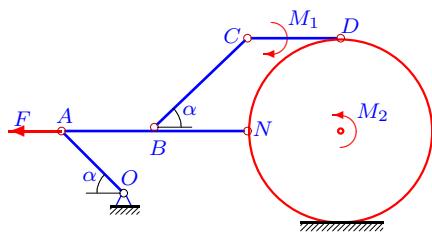
Петухов Антон



$$M_1 = 27, M_2 = 42, R = 7, OA = 7\sqrt{2}, AB = 8, AD = 14, \alpha = 45^\circ.$$

Задача D-34.26.

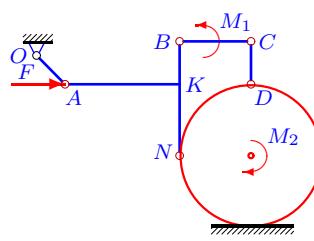
Самойлов Никита



$$M_1 = 22, M_2 = 60, R = 6, OA = 4\sqrt{2}, AB = 6, BN = 6, BC = 6\sqrt{2}, CD = 6, \alpha = 45^\circ$$

Задача D-34.28.

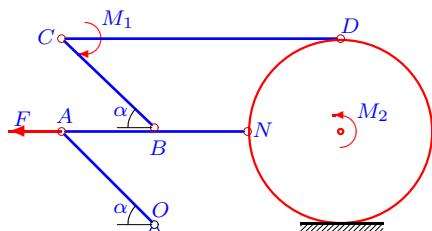
Слявин Ярослав



$$M_1 = 96, M_2 = 156, R = 5, OA = 2\sqrt{2}, AK = 8, BK = 3, KN = 5, CD = 3, \alpha = 45^\circ.$$

Задача D-34.30.

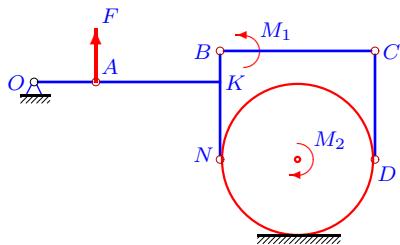
Хачалов Магомед



$$M_1 = 102, M_2 = 124, R = 7, OA = 7\sqrt{2}, AB = 7, BN = 7, BC = 7\sqrt{2}, CD = 21, \alpha = 45^\circ$$

Задача D-34.31.

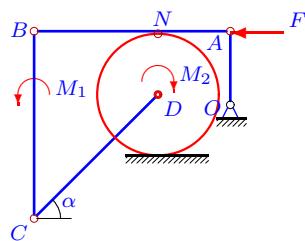
Чаймелов Андрей



$$M_1 = 44, M_2 = 56, R = 5, OA = 4, AK = 8, BK = 2, KN = 5, CD = 7.$$

Задача D-34.33.

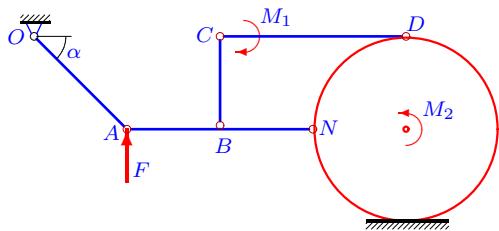
Шубин Станислав



$$M_1 = 483, M_2 = 245, R = 6, OA = 7, CD = 12\sqrt{2}, AN = 7, AB = 19, \alpha = 45^\circ.$$

Задача D-34.35.

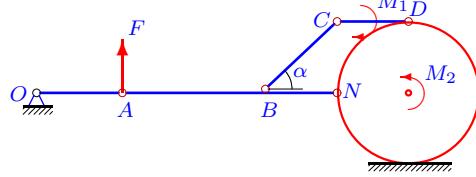
Ярилин Иван



$$M_1 = 42, M_2 = 41, R = 5, OA = 5\sqrt{2}, AB = 5, BN = BC = 5, CD = 10, \alpha = 45^\circ$$

Задача D-34.32.

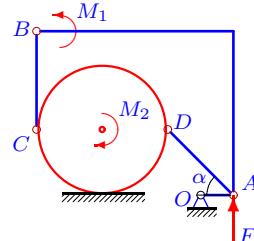
Чумаков Иван



$$M_1 = 150, M_2 = 122, R = 5, OA = 6, AB = 10, BN = 5, BC = 5\sqrt{2}, CD = 5, \alpha = 45^\circ$$

Задача D-34.34.

Юшин Илья



$$M_1 = 47, M_2 = 59, R = 6, OA = 3, AD = 6\sqrt{2}, BC = 9, \alpha = 45^\circ.$$