

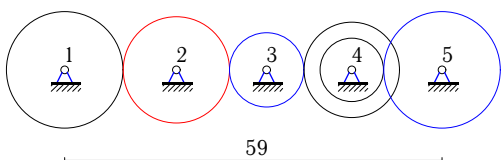
Передача вращений

Оси колес фрикционной передачи расположены на одной прямой. Даны радиусы колес 2-4, расстояние между крайними осями (см) и угловые скорости ведущего колеса 1 и ведомого 5 (с^{-1}). Найти радиусы колес 1 и 5.

Кирсанов М.Н. **Решбник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.149.)

Задача К-6.1.

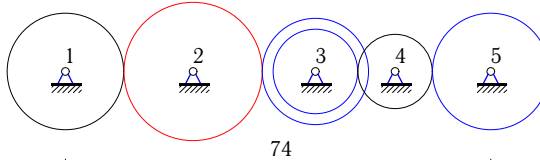
Алимов Шамиль



$$r_2 = 10, r_3 = 7, r_4 = 6, R_4 = 9, \\ \omega_1 = 9, \omega_5 = 14.$$

Задача К-6.2.

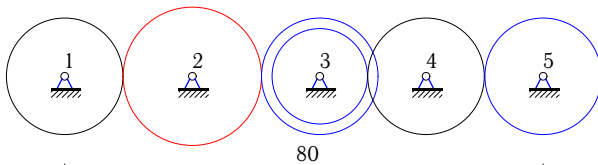
Берсенева Анастасия



$$R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 7, \\ \omega_1 = 455, \omega_5 = 468.$$

Задача К-6.3.

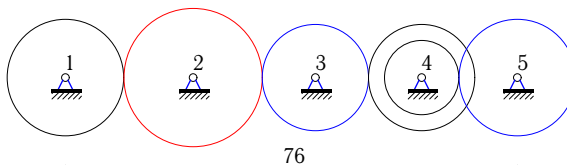
Богатых Ольга



$$R_2 = 13, r_3 = 9, R_3 = 11, R_4 = 11, \\ \omega_1 = 1001, \omega_5 = 585.$$

Задача К-6.4.

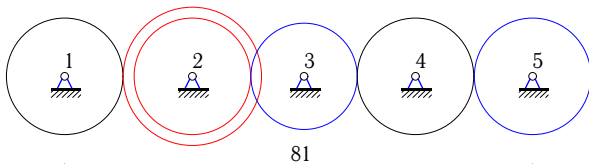
Войтов Марк



$$R_2 = 13, R_3 = 10, r_4 = 7, R_4 = 10, \\ \omega_1 = 780, \omega_5 = 637.$$

Задача К-6.5.

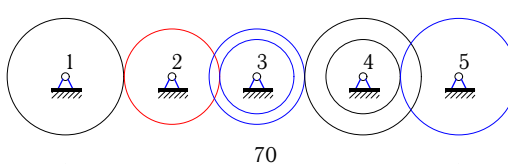
Грабчинская Екатерина



$$r_2 = 11, R_2 = 13, R_3 = 10, R_4 = 11, \\ \omega_1 = 104, \omega_5 = 77.$$

Задача К-6.6.

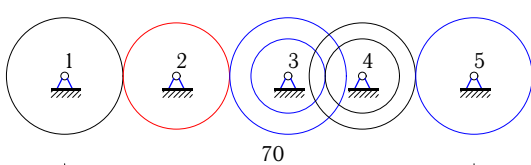
Дугин Антон



$$r_2 = 9, r_3 = 7, R_3 = 9, r_4 = 7, R_4 = 11, \\ \omega_1 = 11, \omega_5 = 18.$$

Задача К-6.7.

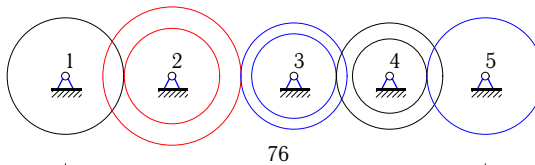
Елизарова Ксения



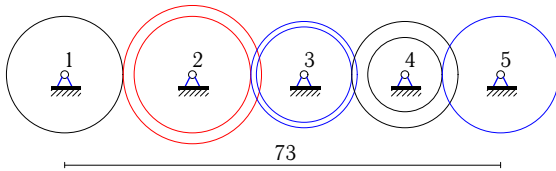
$$r_2 = 10, r_3 = 7, R_3 = 11, r_4 = 7, R_4 = 10, \\ \omega_1 = 11, \omega_5 = 5.$$

Задача К-6.8.

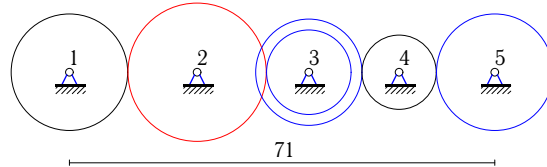
Ефименко Яна



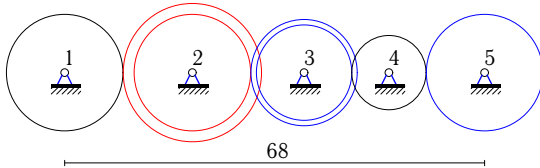
$$r_2 = 9, R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 7, \\ R_4 = 10, \\ \omega_1 = 405, \omega_5 = 364.$$

Задача К-6.9.*Котов Андрей*

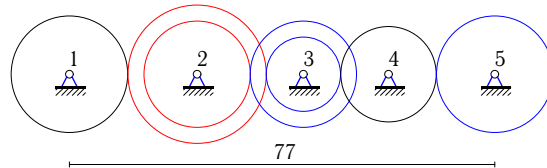
$$r_2 = 11, R_2 = 13, r_3 = 9, R_3 = 10, r_4 = 7, R_4 = 10, \\ \omega_1 = 130, \omega_5 = 231.$$

Задача К-6.10.*Кравчук Ольга*

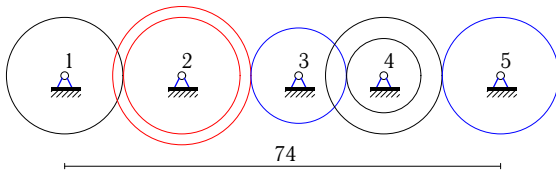
$$R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 7, \\ \omega_1 = 416, \omega_5 = 325.$$

Задача К-6.11.*Левин Глеб*

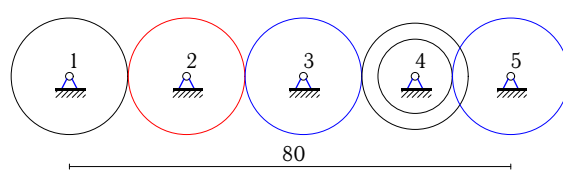
$$r_2 = 11, R_2 = 13, r_3 = 9, R_3 = 10, r_4 = 7, \\ \omega_1 = 52, \omega_5 = 33.$$

Задача К-6.12.*Лысина Екатерина*

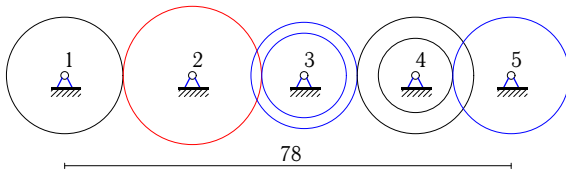
$$r_2 = 10, R_2 = 13, r_3 = 7, R_3 = 10, R_4 = 9, \\ \omega_1 = 130, \omega_5 = 63.$$

Задача К-6.13.*Маралкина Евгения*

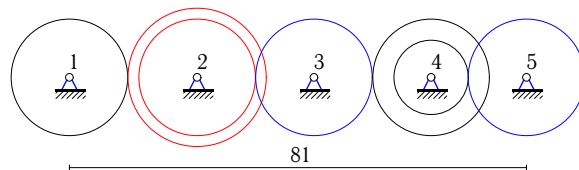
$$r_2 = 11, R_2 = 13, r_3 = 9, r_4 = 7, R_4 = 11, \\ \omega_1 = 35, \omega_5 = 26.$$

Задача К-6.14.*Новов Александр*

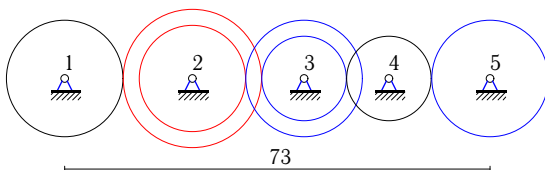
$$r_2 = 11, R_3 = 11, r_4 = 7, R_4 = 10, \\ \omega_1 = 5, \omega_5 = 6.$$

Задача К-6.15.*Павич Иван*

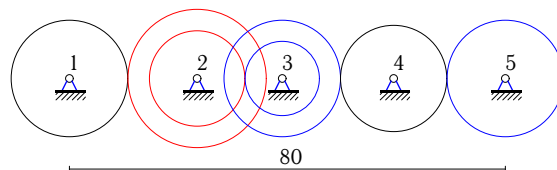
$$R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 7, R_4 = 11, \\ \omega_1 = 572, \omega_5 = 455.$$

Задача К-6.16.*Сонин Андрей*

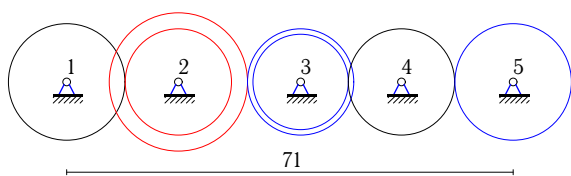
$$r_2 = 11, R_2 = 13, R_3 = 11, r_4 = 7, R_4 = 11, \\ \omega_1 = 78, \omega_5 = 77.$$

Задача К-6.17.*Тугарина Дарья*

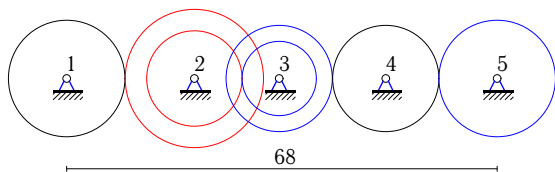
$$r_2 = 10, R_2 = 13, r_3 = 8, R_3 = 11, r_4 = 8, \\ \omega_1 = 143, \omega_5 = 320.$$

Задача К-6.18.*Хромов Дмитрий*

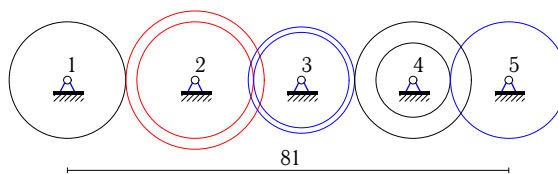
$$r_2 = 9, R_2 = 13, r_3 = 7, R_3 = 11, R_4 = 10, \\ \omega_1 = 182, \omega_5 = 297.$$

Задача К-6.19.*Чудаков Александр*

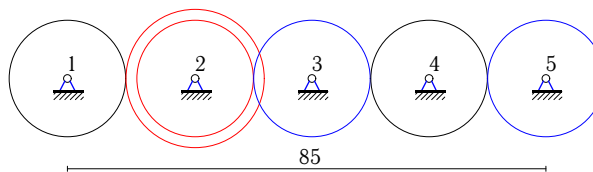
$$r_2 = 10, R_2 = 13, r_3 = 9, R_3 = 10, R_4 = 10, \\ \omega_1 = 80, \omega_5 = 117.$$

Задача К-6.21.

$$r_2 = 9, R_2 = 13, r_3 = 7, R_3 = 10, R_4 = 10, \\ \omega_1 = 182, \omega_5 = 225.$$

Задача К-6.20.

$$r_2 = 11, R_2 = 13, r_3 = 9, R_3 = 10, r_4 = 7, \\ R_4 = 11, \\ \omega_1 = 1053, \omega_5 = 770.$$

Задача К-6.22.

$$r_2 = 11, R_2 = 13, R_3 = 11, R_4 = 11, \\ \omega_1 = 91, \omega_5 = 110.$$