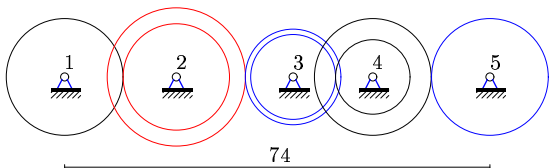


Передача вращений

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. Акперов Эмиль Рауфович

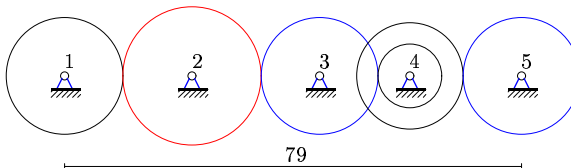


$$r_2 = 10, R_2 = 13, r_3 = 8, R_3 = 9, r_4 = 7, \\ R_4 = 11, \\ \omega_1 = 525, \omega_5 = 572.$$

Задача К-6.2.

Алексеев Максим

Алексеевич

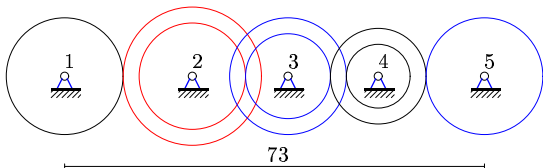


$$R_2 = 13, R_3 = 11, r_4 = 6, R_4 = 10, \\ \omega_1 = 26, \omega_5 = 65.$$

Задача К-6.3.

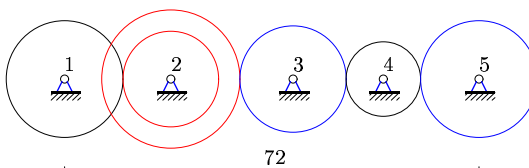
Архипова Евгения

Евгеньевна



$$r_2 = 10, R_2 = 13, r_3 = 8, R_3 = 11, r_4 = 6, \\ R_4 = 9, \\ \omega_1 = 104, \omega_5 = 275.$$

Задача К-6.4. Борисов Илья Валерьевич

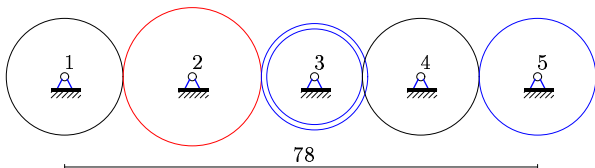


$$r_2 = 9, R_2 = 13, R_3 = 10, r_4 = 7, \\ \omega_1 = 7, \omega_5 = 13.$$

Задача К-6.5.

Горюнов Антон

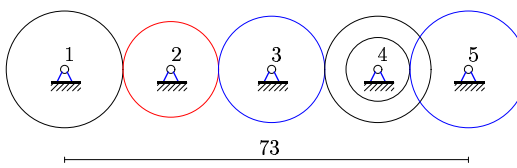
Витальевич



$$R_2 = 13, r_3 = 9, R_3 = 10, R_4 = 11, \\ \omega_1 = 520, \omega_5 = 819.$$

Задача К-6.6.

Давтян Инга Гагиковна

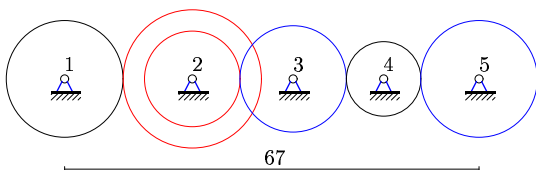


$$r_2 = 9, R_3 = 10, r_4 = 6, R_4 = 10, \\ \omega_1 = 40, \omega_5 = 33.$$

Задача К-6.7.

Дзядевич Дмитрий

Викторович

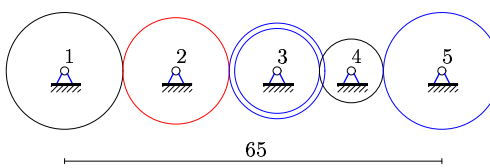


$$r_2 = 9, R_2 = 13, R_3 = 10, r_4 = 7, \\ \omega_1 = 65, \omega_5 = 54.$$

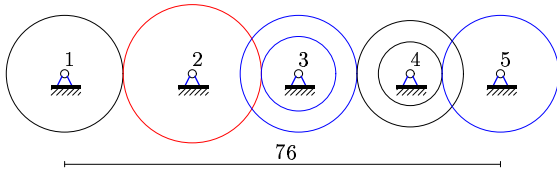
Задача К-6.8.

Ефимов Василий

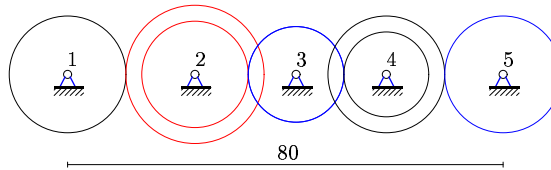
Владимирович



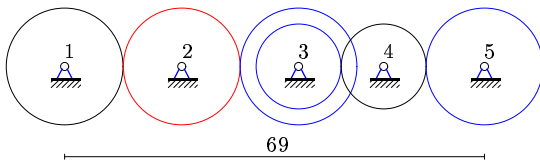
$$r_2 = 10, r_3 = 8, R_3 = 9, r_4 = 6, \\ \omega_1 = 45, \omega_5 = 88.$$

Задача К-6.9.*Савельев Никита*

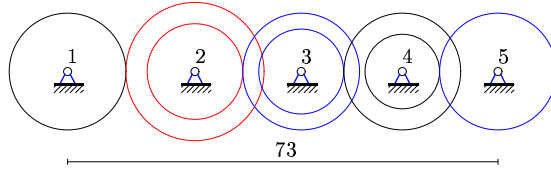
$$R_2 = 13, r_3 = 7, R_3 = 11, r_4 = 6, R_4 = 10, \\ \omega_1 = 2275, \omega_5 = 4719.$$

Задача К-6.10.*Захаров Алексей**Сергеевич*

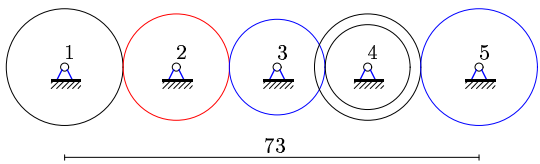
$$r_2 = 10, R_2 = 13, r_3 = 9, R_3 = 9, r_4 = 8, \\ R_4 = 11, \\ \omega_1 = 104, \omega_5 = 165.$$

Задача К-6.11.*Золотых Дмитрий*

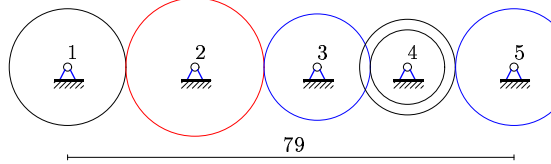
$$r_2 = 11, r_3 = 8, R_3 = 11, r_4 = 8, \\ \omega_1 = 55, \omega_5 = 56.$$

Задача К-6.12.*Зубков Антон Глебович*

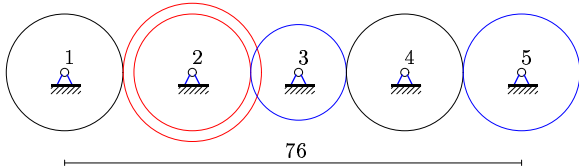
$$r_2 = 9, R_2 = 13, r_3 = 8, R_3 = 11, r_4 = 7, \\ R_4 = 11, \\ \omega_1 = 143, \omega_5 = 168.$$

Задача К-6.13.*Зяблицын Даниил**Павлович*

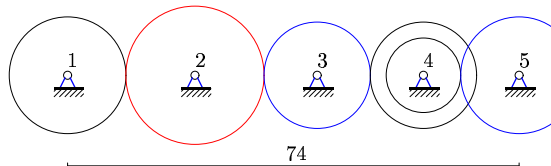
$$r_2 = 10, R_3 = 9, r_4 = 8, R_4 = 10, \\ \omega_1 = 9, \omega_5 = 10.$$

Задача К-6.14.*Кирюхин Антон**Анатольевич*

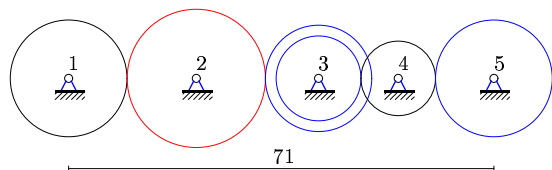
$$R_2 = 13, R_3 = 10, r_4 = 7, R_4 = 9, \\ \omega_1 = 455, \omega_5 = 1404.$$

Задача К-6.15.*Мамонов Богдан**Анатольевич*

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

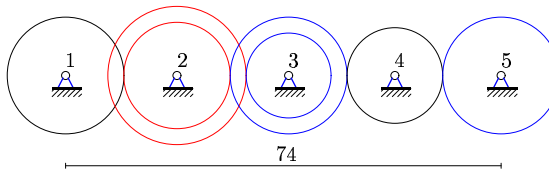
Задача К-6.16.*Молдареева Мария**Дмитриевна*

$$R_2 = 13, R_3 = 10, r_4 = 7, R_4 = 10, \\ \omega_1 = 520, \omega_5 = 637.$$

Задача К-6.17.*Морозов Максим**Игоревич*

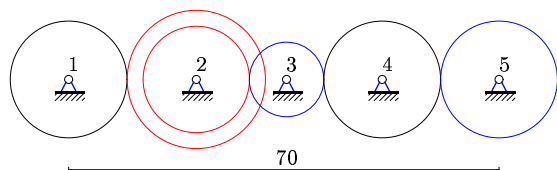
$$R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 7,$$

$$\omega_1 = 39, \omega_5 = 104.$$

Задача К-6.18.*Мурушкин Сергей**Павлович*

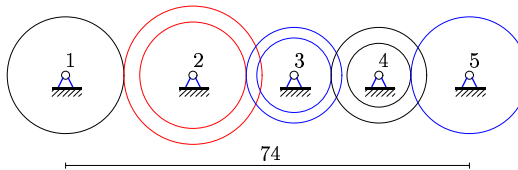
$$r_2 = 10, R_2 = 13, r_3 = 8, R_3 = 11, R_4 = 9,$$

$$\omega_1 = 60, \omega_5 = 143.$$

Задача К-6.19.*Обновленный Михаил**Юрьевич*

$$r_2 = 10, R_2 = 13, r_3 = 7, R_4 = 11,$$

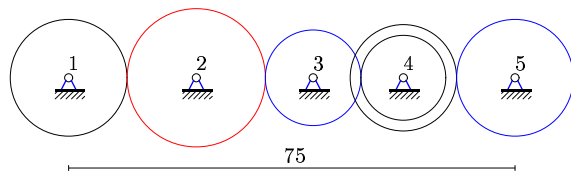
$$\omega_1 = 39, \omega_5 = 80.$$

Задача К-6.20.*Султыгов Али**Дмитриевич*

$$r_2 = 10, R_2 = 13, r_3 = 7, R_3 = 9, r_4 = 6,$$

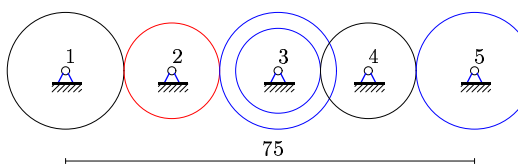
$$R_4 = 9,$$

$$\omega_1 = 117, \omega_5 = 70.$$

Задача К-6.21.*Сурков Вячеслав**Вячеславович*

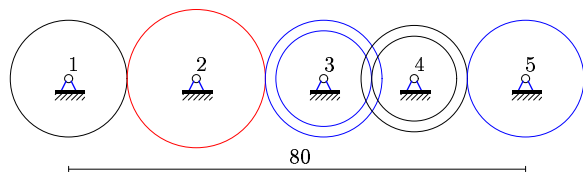
$$R_2 = 13, r_3 = 9, r_4 = 8, R_4 = 10,$$

$$\omega_1 = 78, \omega_5 = 325.$$

Задача К-6.22.*Суслов Даниил**Михайлович*

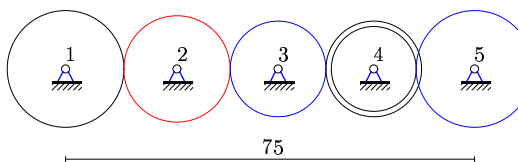
$$r_2 = 9, r_3 = 8, R_3 = 11, R_4 = 9,$$

$$\omega_1 = 11, \omega_5 = 12.$$

Задача К-6.23.*Сяскова Валерия**Александровна*

$$R_2 = 13, r_3 = 9, R_3 = 11, r_4 = 8, R_4 = 10,$$

$$\omega_1 = 4004, \omega_5 = 5265.$$

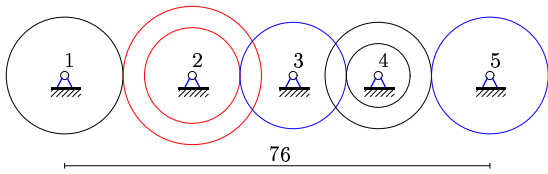
Задача К-6.24.*Фандеев Алексей**Сергеевич*

$$r_2 = 10, r_3 = 9, r_4 = 8, R_4 = 9,$$

$$\omega_1 = 81, \omega_5 = 88.$$

Задача К-6.25.
Алексеевич

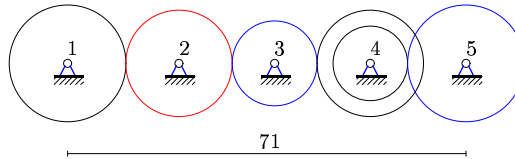
Цупенков Дмитрий



$$r_2 = 9, R_2 = 13, R_3 = 10, r_4 = 6, R_4 = 10, \\ \omega_1 = 13, \omega_5 = 30.$$

Задача К-6.26.
Сергеевна

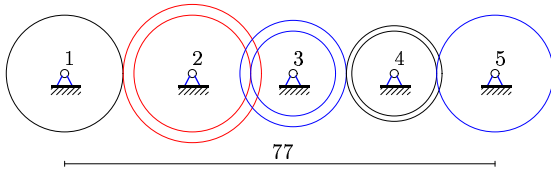
Чечнева Наталья



$$r_2 = 10, r_3 = 8, r_4 = 7, R_4 = 10, \\ \omega_1 = 10, \omega_5 = 11.$$

Задача К-6.27.
Кирилловна

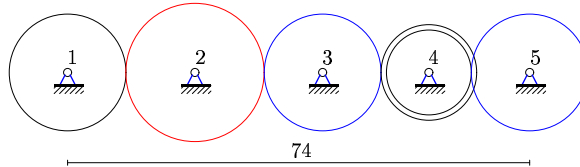
Чижова Александра



$$r_2 = 11, R_2 = 13, r_3 = 8, R_3 = 10, r_4 = 8, \\ R_4 = 9, \\ \omega_1 = 117, \omega_5 = 220.$$

Задача К-6.28.
Андреевна

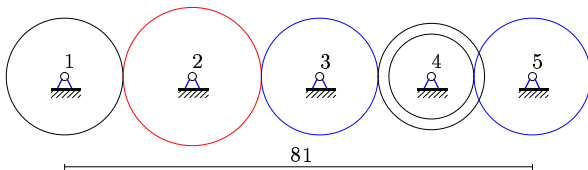
Шаронова Дарья



$$R_2 = 13, R_3 = 11, r_4 = 8, R_4 = 9, \\ \omega_1 = 585, \omega_5 = 416.$$

Задача К-6.29.
Сергеевич

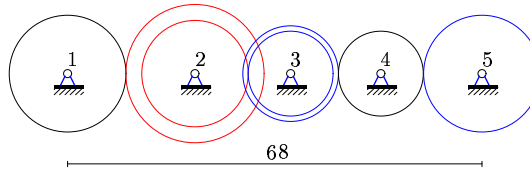
Шашелко Арсентий



$$R_2 = 13, R_3 = 11, r_4 = 8, R_4 = 10, \\ \omega_1 = 65, \omega_5 = 26.$$

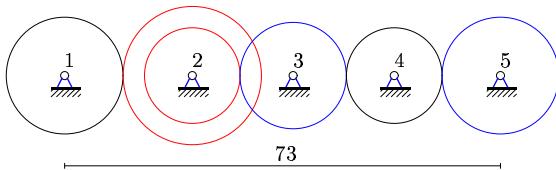
Задача К-6.30.

Бондаренко Д.



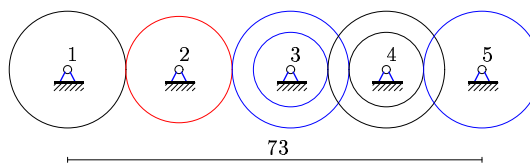
$$r_2 = 10, R_2 = 13, r_3 = 8, R_3 = 9, r_4 = 8, \\ \omega_1 = 52, \omega_5 = 45.$$

Задача К-6.31.



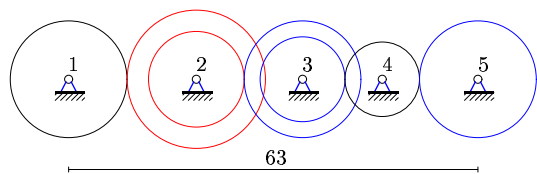
$$r_2 = 9, R_2 = 13, R_3 = 10, R_4 = 9, \\ \omega_1 = 52, \omega_5 = 81.$$

Задача К-6.32.



$$r_2 = 10, r_3 = 7, R_3 = 11, r_4 = 7, R_4 = 11, \\ \omega_1 = 1089, \omega_5 = 392.$$

Задача К-6.33.



$$r_2 = 9, R_2 = 13, r_3 = 8, R_3 = 11, r_4 = 7,$$
$$\omega_1 = 143, \omega_5 = 72.$$