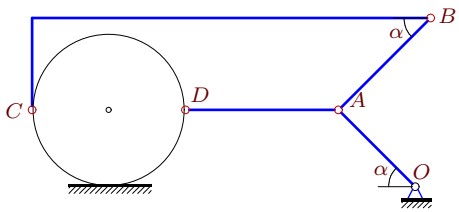
Кинематический анализ плоского механизма

В указанном положении механизма задана угловая скорость одного из звеньев. Длины звеньев даны в сантиметрах. Стержни, направление которых не указано, считать горизонтальными или вертикальными. Диск катится по горизонтальной поверхности без проскальзывания. Найти угловые скорости всех звеньев механизма.

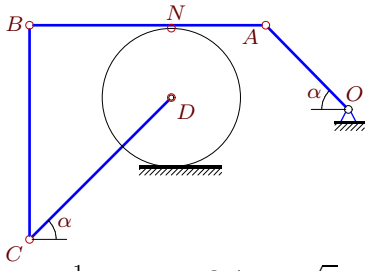
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)

Задача 26.1. *Аксенов Юрий*



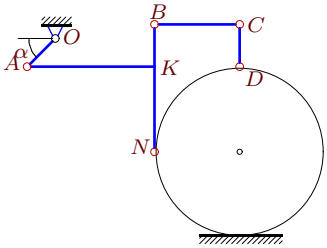
$\omega_{OA_z} = 1\frac{1}{c}$, $R = 5$, $OA = 5\sqrt{2}$,
$AB = 6\sqrt{2}$, $AD = 10$, $\alpha = 45°$.

Задача 26.2. *Бондаренко В.*



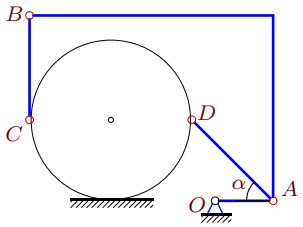
$\omega_{OA_z} = 72\frac{1}{c}$, $R = 6$, $OA = 7\sqrt{2}$,
$CD = 12\sqrt{2}$, $AN = 8$, $AB = 20$, $\alpha = 45°$.

Задача 26.3. *Бублей Александр*



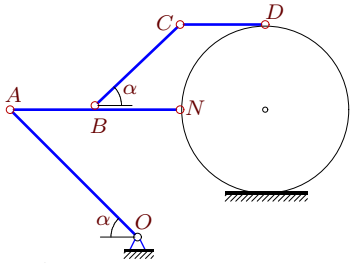
$\omega_{OA_z} = 3\frac{1}{c}$, $R = 6$, $OA = 2\sqrt{2}$,
$AK = 9$, $BK = 3$, $KN = 6$, $CD = 3$, $\alpha = 45°$.

Задача 26.4. *Воробьев Кирилл*



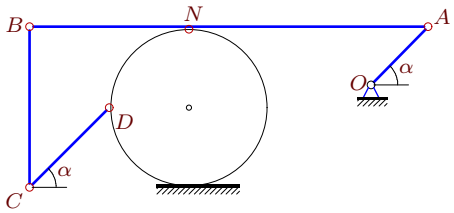
$\omega_{OA_z} = 14\frac{1}{c}$, $R = 7$, $OA = 5$,
$AD = 7\sqrt{2}$, $BC = 9$, $\alpha = 45°$.

Задача 26.5. *Гаджиев Джамал*



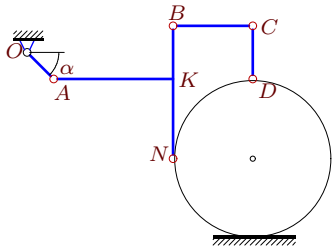
$\omega_{OA_z} = 2\frac{1}{c}$, $R = 6$, $OA = 9\sqrt{2}$,
$AB = 6$, $BN = 6$, $BC = 6\sqrt{2}$, $CD = 6$, α=45°

Задача 26.6. *Грицай Виктор*



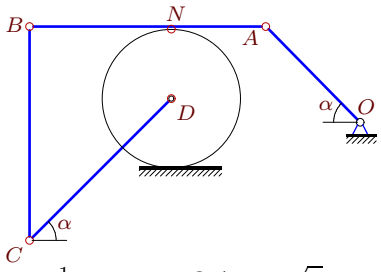
$\omega_{OA_z} = 42\frac{1}{c}$, $R = 7$, $OA = 5\sqrt{2}$,
$CD = 7\sqrt{2}$, $AN = 21$, $AB = 35$, $\alpha = 45°$.

Задача 26.7. *Желябовская Юля*



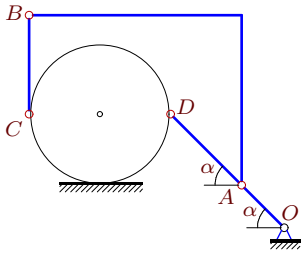
$\omega_{OA_z} = 6\frac{1}{c}$, $R = 6$, $OA = 2\sqrt{2}$,
$AK = 9$, $BK = 4$, $KN = 6$, $CD = 4$, $\alpha = 45°$.

Задача 26.8. *Зайцева Евгения*



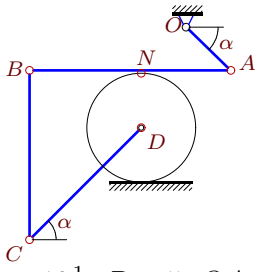
$\omega_{OA_z} = 9\frac{1}{c}$, $R = 6$, $OA = 8\sqrt{2}$,
$CD = 12\sqrt{2}$, $AN = 8$, $AB = 20$, $\alpha = 45°$.

Задача 26.9. *Колесник Анастасия*



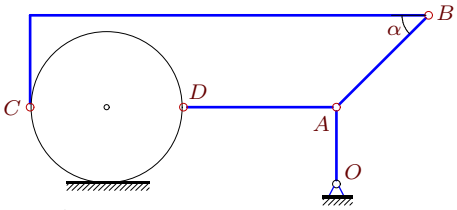
$\omega_{OA_z} = 35\frac{1}{c}$, $R = 5$, $OA = 3\sqrt{2}$,
$AD = 5\sqrt{2}$, $BC = 7$, $\alpha = 45°$.

Задача 26.10. *Костюков Дмитрий*



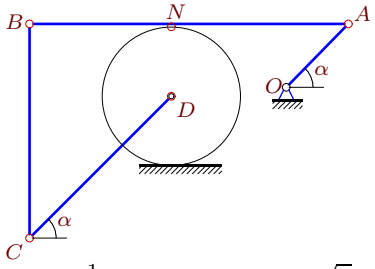
$\omega_{OA_z} = 10\frac{1}{c}$, $R = 5$, $OA = 4\sqrt{2}$,
$CD = 10\sqrt{2}$, $AN = 8$, $AB = 18$, $\alpha = 45°$.

Задача 26.11. *Коротеев Александр*



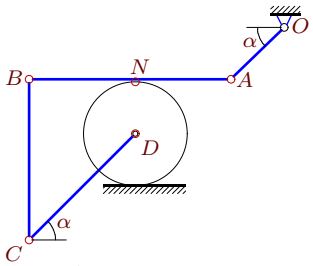
$\omega_{OA_z} = 4\frac{1}{c}$, $R = 5$, $OA = 5$,
$AB = 6\sqrt{2}$, $AD = 10$, $\alpha = 45°$.

Задача 26.12. *Котенко Вячеслав*



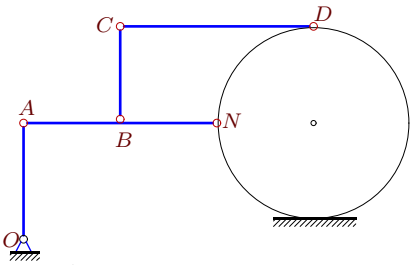
$\omega_{OA_z} = 240\frac{1}{c}$, $R = 8$, $OA = 7\sqrt{2}$,
$CD = 16\sqrt{2}$, $AN = 20$, $AB = 36$, $\alpha = 45°$.

Задача 26.13. *Мальцев Александр*



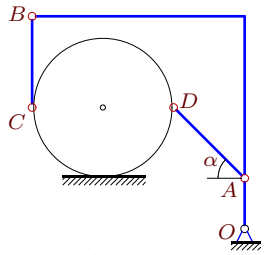
$\omega_{OA_z} = 54\frac{1}{c}$, $R = 5$, $OA = 5\sqrt{2}$,
$CD = 10\sqrt{2}$, $AN = 9$, $AB = 19$, $\alpha = 45°$.

Задача 26.14. *Настаева Зухра*



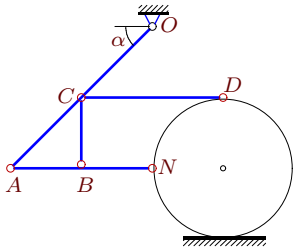
$\omega_{OA_z} = 10\frac{1}{c}$, $R = 5$, $OA = 6$,
$AB = 5$, $BN = BC = 5$, $CD = 10$.

Задача 26.15. *Светлов Вадим*



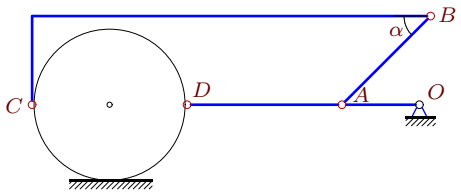
$\omega_{OA_z} = 378\frac{1}{c}$, $R = 7$, $OA = 5$,
$AD = 7\sqrt{2}$, $BC = 9$, $\alpha = 45°$.

Задача 26.16. *Смирнова Анастасия*



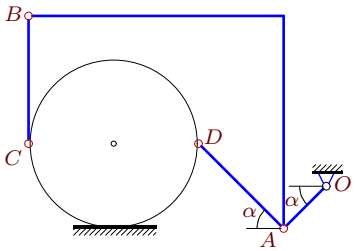
$\omega_{OA_z} = 1\frac{1}{c}$, $R = 4$, $OA = 8\sqrt{2}$,
$AB = 4$, $BN = BC = 4$, $CD = 8$, α=45°

Задача 26.17. *Степин Илья*



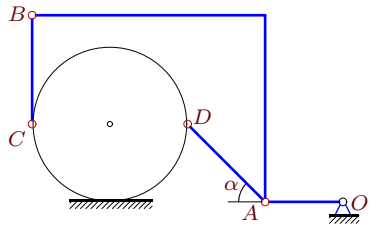
$\omega_{OA_z} = 4\frac{1}{c}$, $R = 7$, $OA = 7$,
$AB = 8\sqrt{2}$, $AD = 14$, $\alpha = 45°$.

Задача 26.18. *Цвирко Федор*



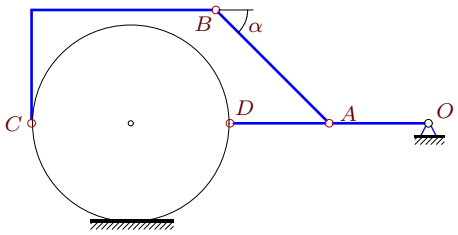
$\omega_{OA_z} = 18\frac{1}{c}$, $R = 6$, $OA = 3\sqrt{2}$,
$AD = 6\sqrt{2}$, $BC = 9$, $\alpha = 45°$.

Задача 26.19. *Ченцов Максим*



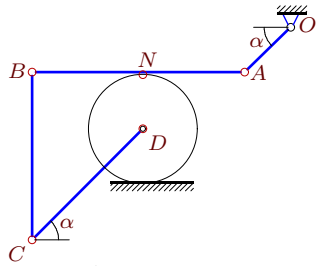
$\omega_{OA_z} = 2\frac{1}{c}$, $R = 5$, $OA = 5$,
$AD = 5\sqrt{2}$, $BC = 7$, $\alpha = 45°$.

Задача 26.20. *Чигидина Лиза*



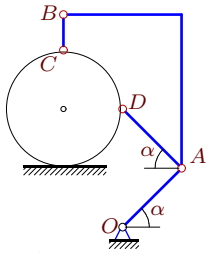
$\omega_{OA_z} = 3\frac{1}{c}$, $R = 7$, $OA = 7$,
$AB = 8\sqrt{2}$, $AD = 7$, $\alpha = 45°$.

Задача 26.21. *Шабан Михаил*



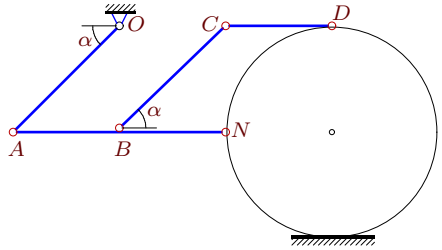
$\omega_{OA_z} = 396\frac{1}{c}$, $R = 6$, $OA = 5\sqrt{2}$,
$CD = 12\sqrt{2}$, $AN = 11$, $AB = 23$, $\alpha = 45°$.

Задача 26.22. *Шевцов Никита*



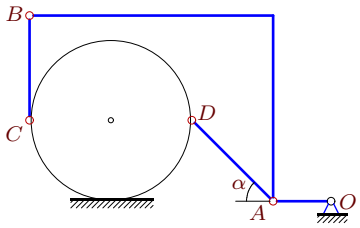
$\omega_{OA_z} = 2\frac{1}{c}$, $R = 5$, $OA = 5\sqrt{2}$,
$AD = 5\sqrt{2}$, $BC = 3$, $\alpha = 45°$.

Задача 26.23. *Шимарова Светлана*



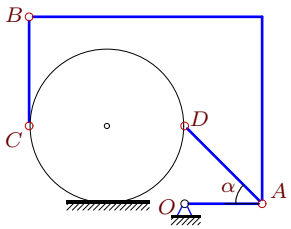
$\omega_{OA_z} = 1\frac{1}{c}$, $R = 4$, $OA = 4\sqrt{2}$,
$AB = 4$, $BN = 4$, $BC = 4\sqrt{2}$, $CD = 4$, α=45°

Задача 26.24. *Шинкина Анна*



$\omega_{OA_z} = 14\frac{1}{c}$, $R = 7$, $OA = 5$,
$AD = 7\sqrt{2}$, $BC = 9$, $\alpha = 45°$.

Задача 26.25. *Шуйчиков Артем*



$\omega_{OA_z} = 2\frac{1}{c}$, $R = 5$, $OA = 5$,
$AD = 5\sqrt{2}$, $BC = 7$, $\alpha = 45°$.