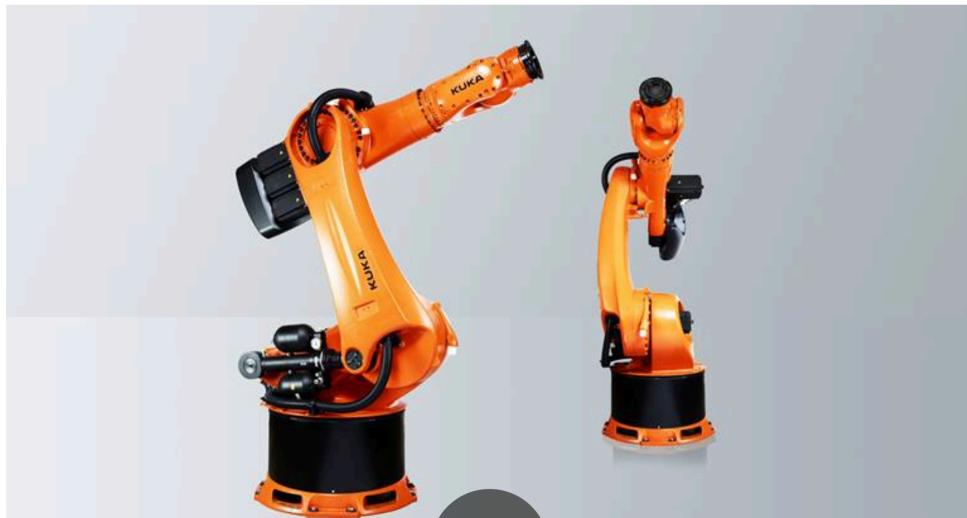


Homework 1

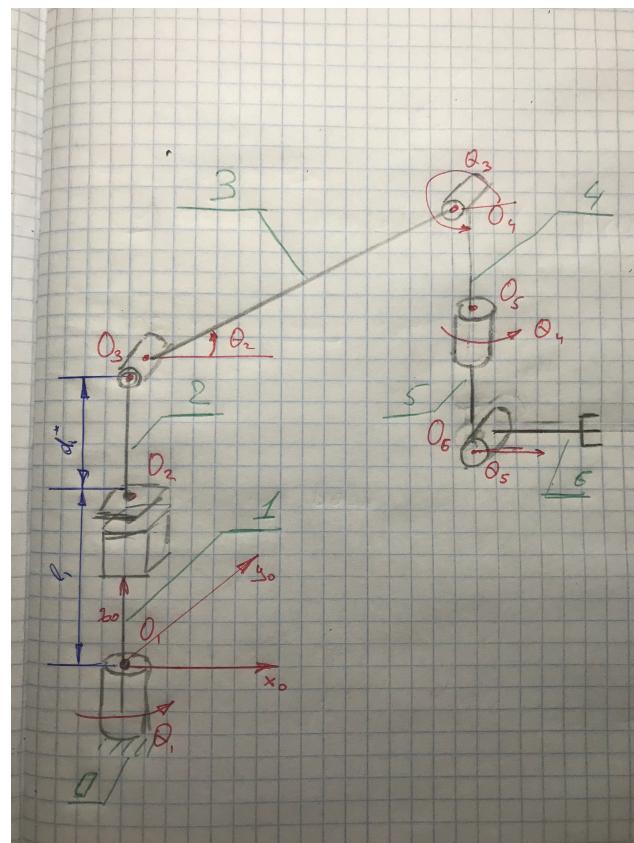
KUKA KR 600 FORTEC

Description: The KR 600 FORTEC is industrial manipulator is designed to transport heavy parts. He can also perform various technological operations.

Robot photo:



Robot's scheme with joints and links:



The design consists of 7 links and 6 points. I added the ability to move vertically for link 1. Joints: Prismatic joint O2 and 6 Revolute joints $O_1, O_3 - O_6$,
The main dimensions:

$$l_1 = O_1O_2 = 500mm$$

$$d_1^* = 100...500mm$$

$$l_3 = O_3O_4 = 600mm$$

$$l_4 = O_4O_5 = 250mm$$

$$l_5 = O_5O_6 = 100mm$$

$$l_6 = 100mm$$