#### Kinematic Diagram

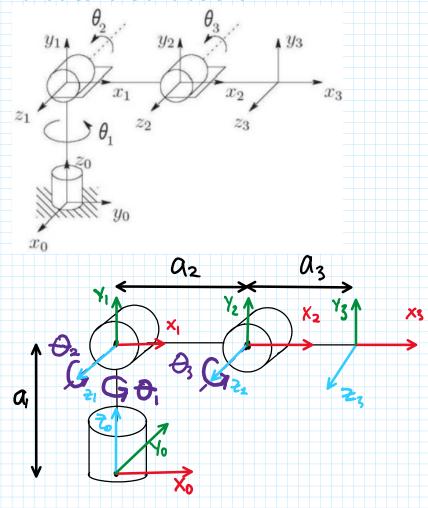
Saturday, 20 September 2025 8:18

### **Kinematics**

The science of motion that treats the subject without regard to the forces that cause it.

## **Kinematic Diagram**

Diagram that shows how the links and joints are connected together when all of the joint variables have a value of 0.



# **Joint Diagrams** Twisting or Revolute Joints) -On Prismatic Linear or Orthogonal Jointson

# Basic Components and Labels

**Links, a**n - these are the rigid parts of the mechanical manipulator, joints are also considered links and the values are constant

- if revolute/twisting, links are drawn from the center of rotation
- If prismatic, either linear or orthogonal, links are drawn from the center of translation
- If from base, links are drawn from the center of gravity

Joint Variables, on both In these are values that change when the joint moves

