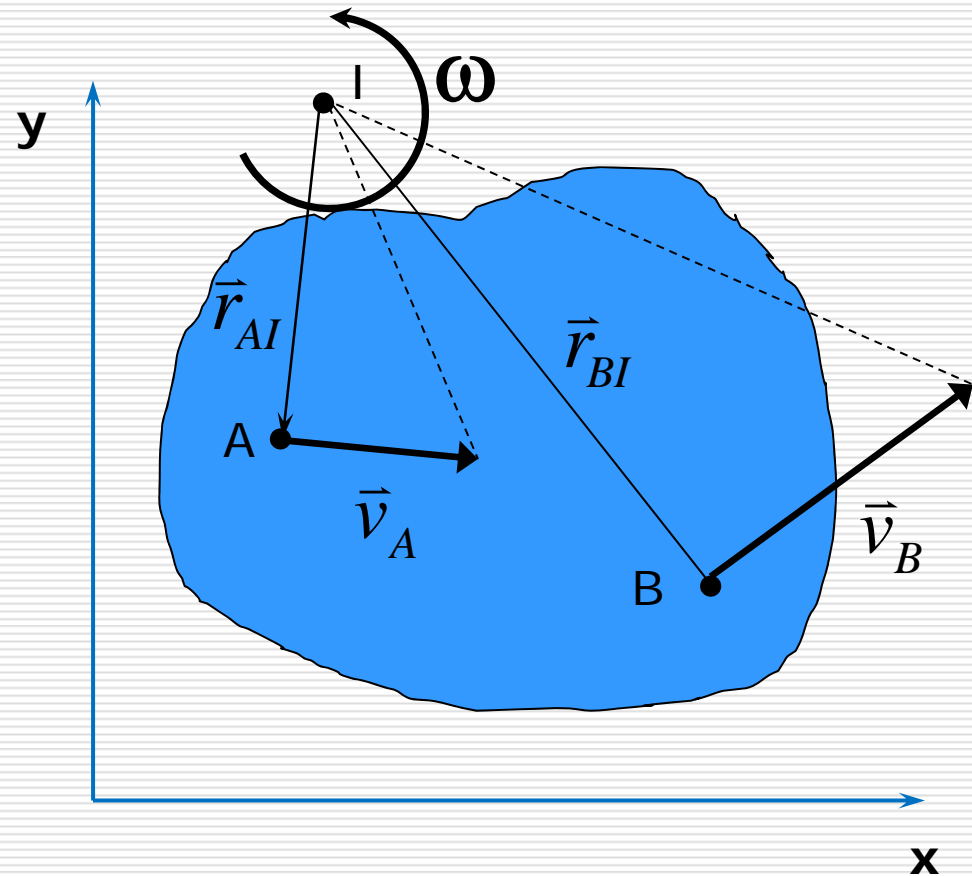


Kinematics of Mechanisms

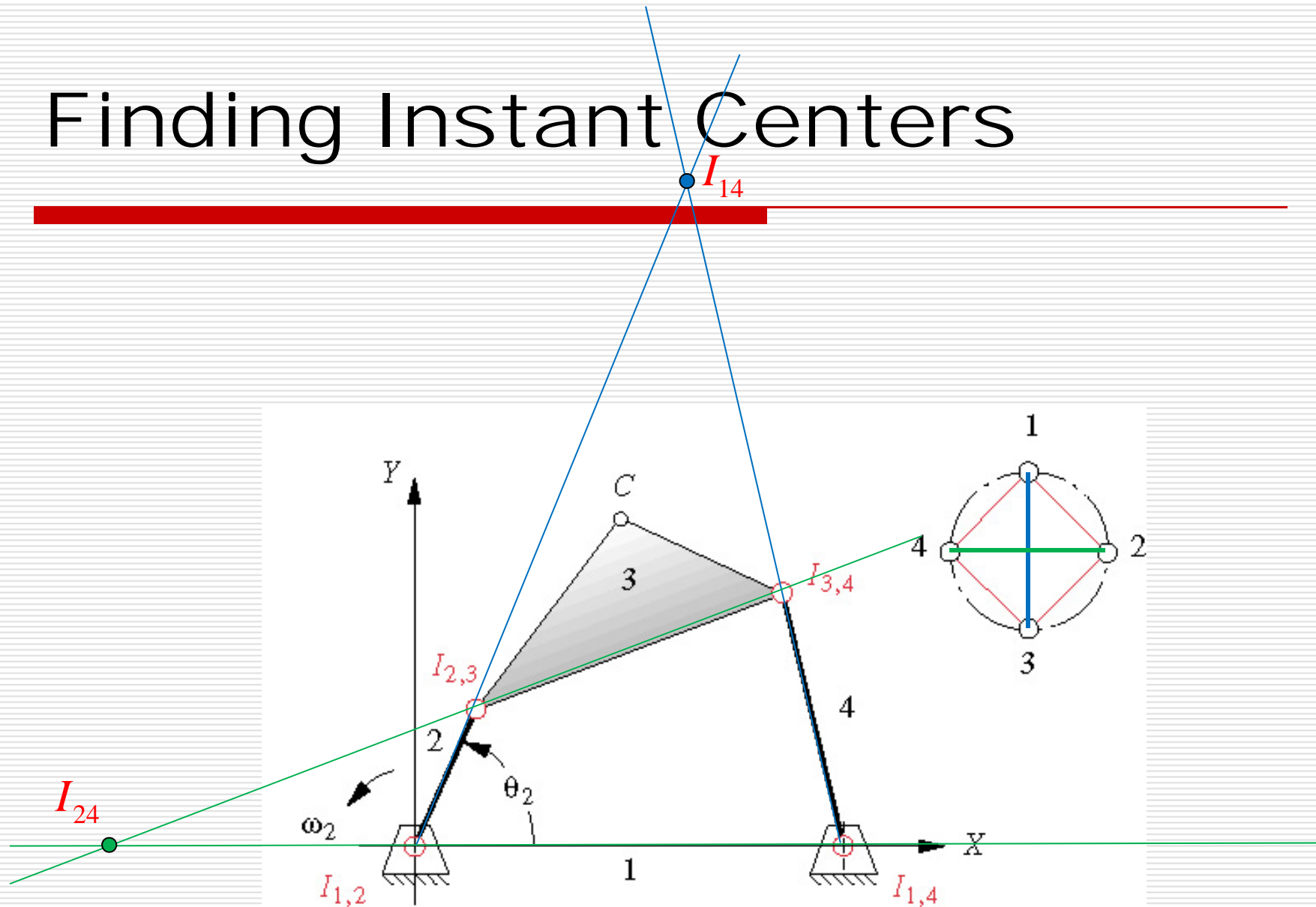
□ Instant Centers Velocity Analysis

Instant Centers of Velocity

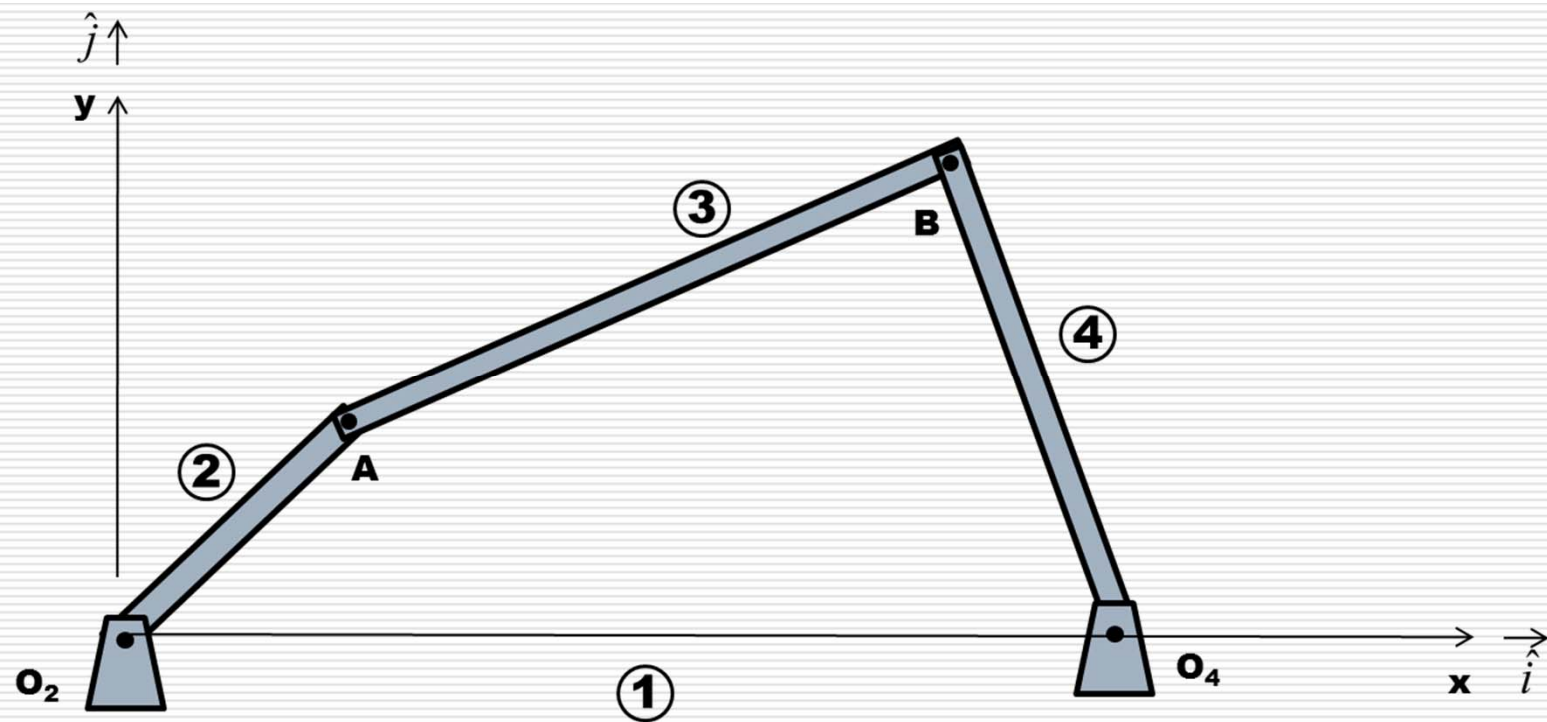
- Instant centers are sometimes referred to as poles
- Instantaneous location of a pair of coincident points of two different rigid bodies for which the absolute velocities of the two points are equal



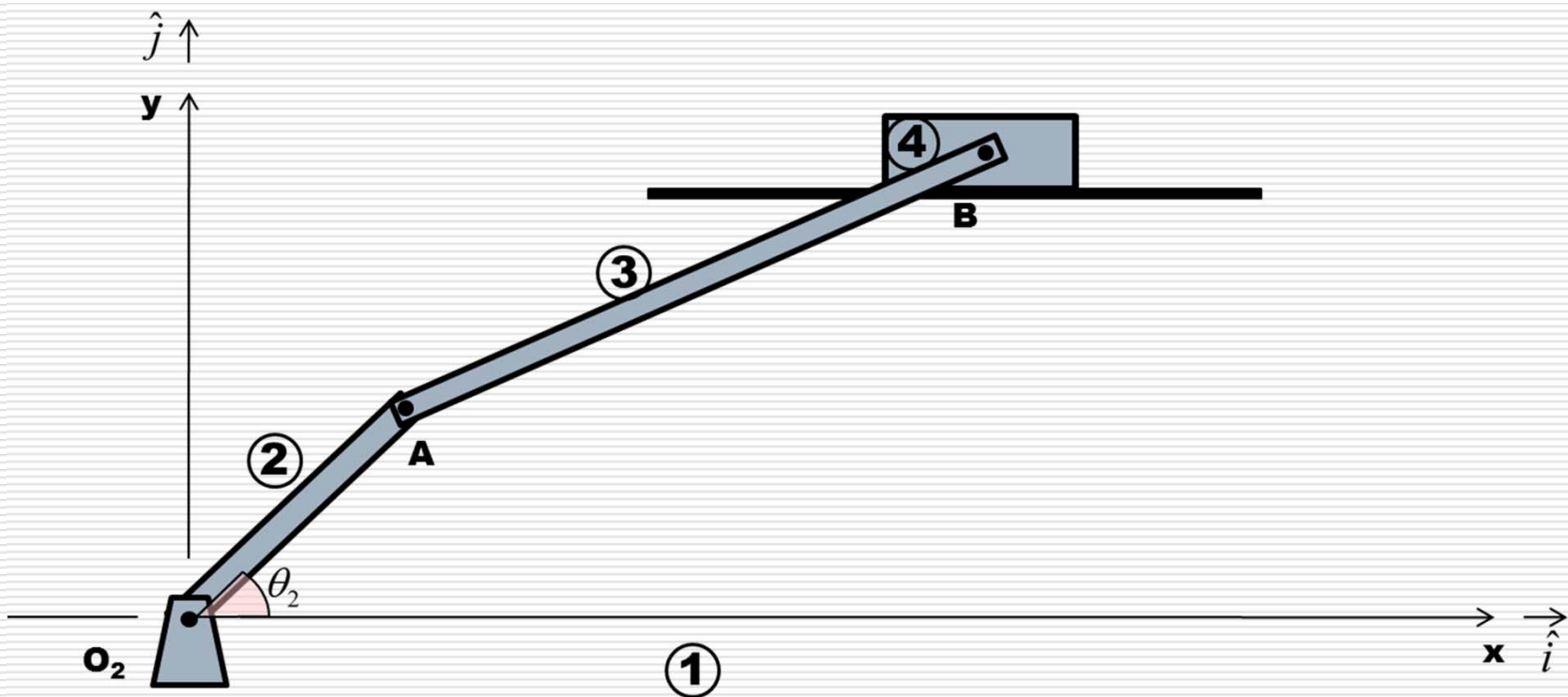
Finding Instant Centers



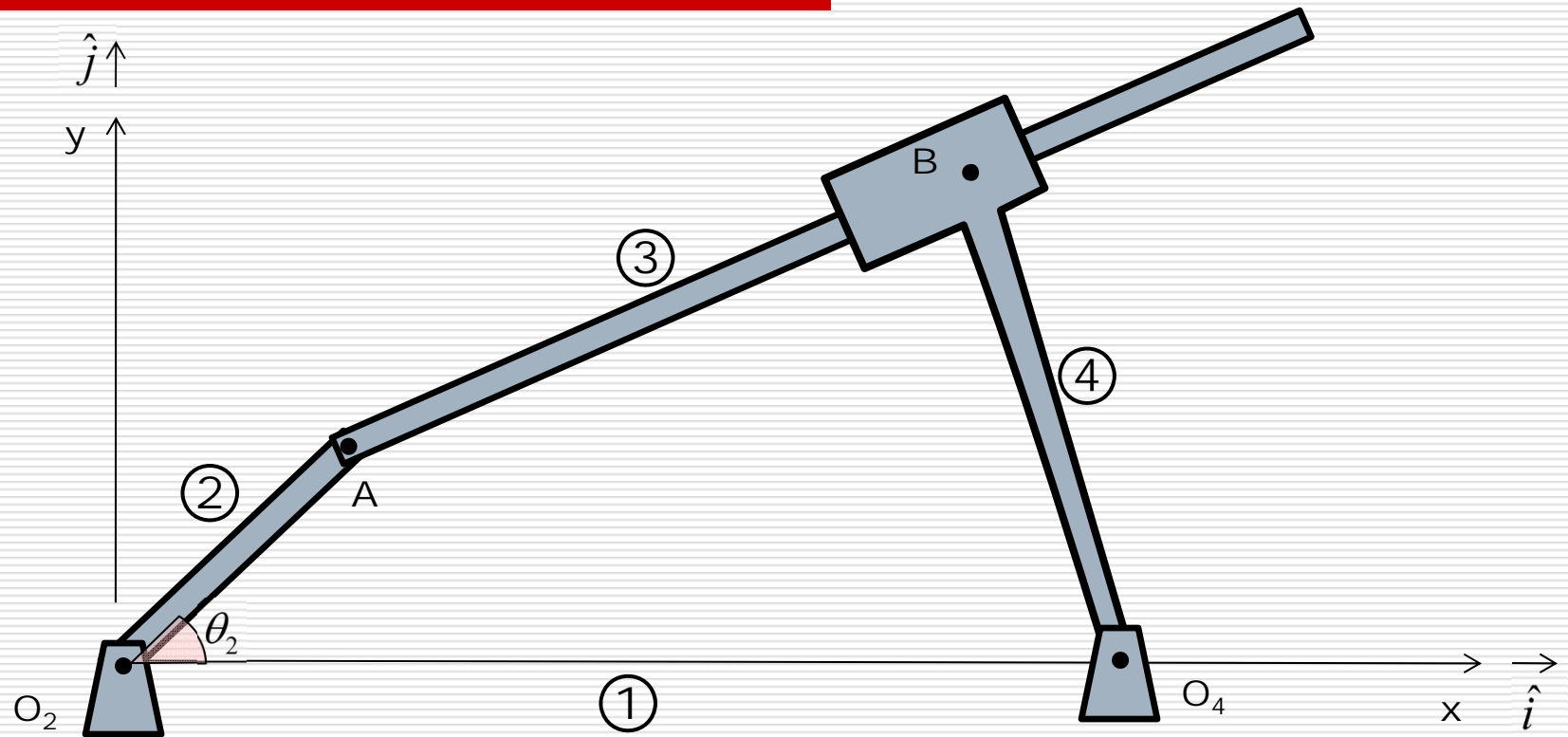
TYPE I (RRRR): 4 - BAR



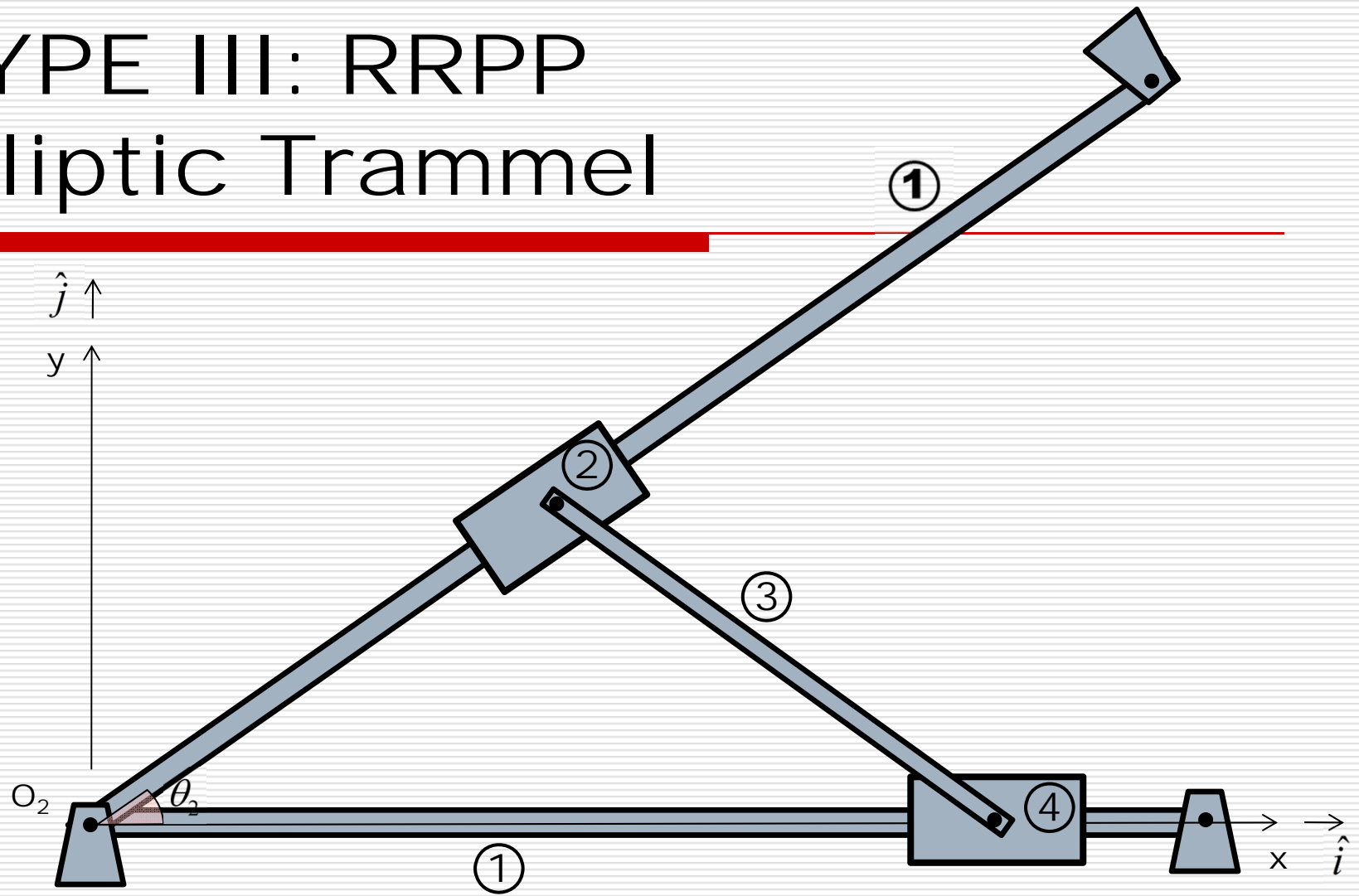
TYPE II: (RRRP): SLIDER CRANK



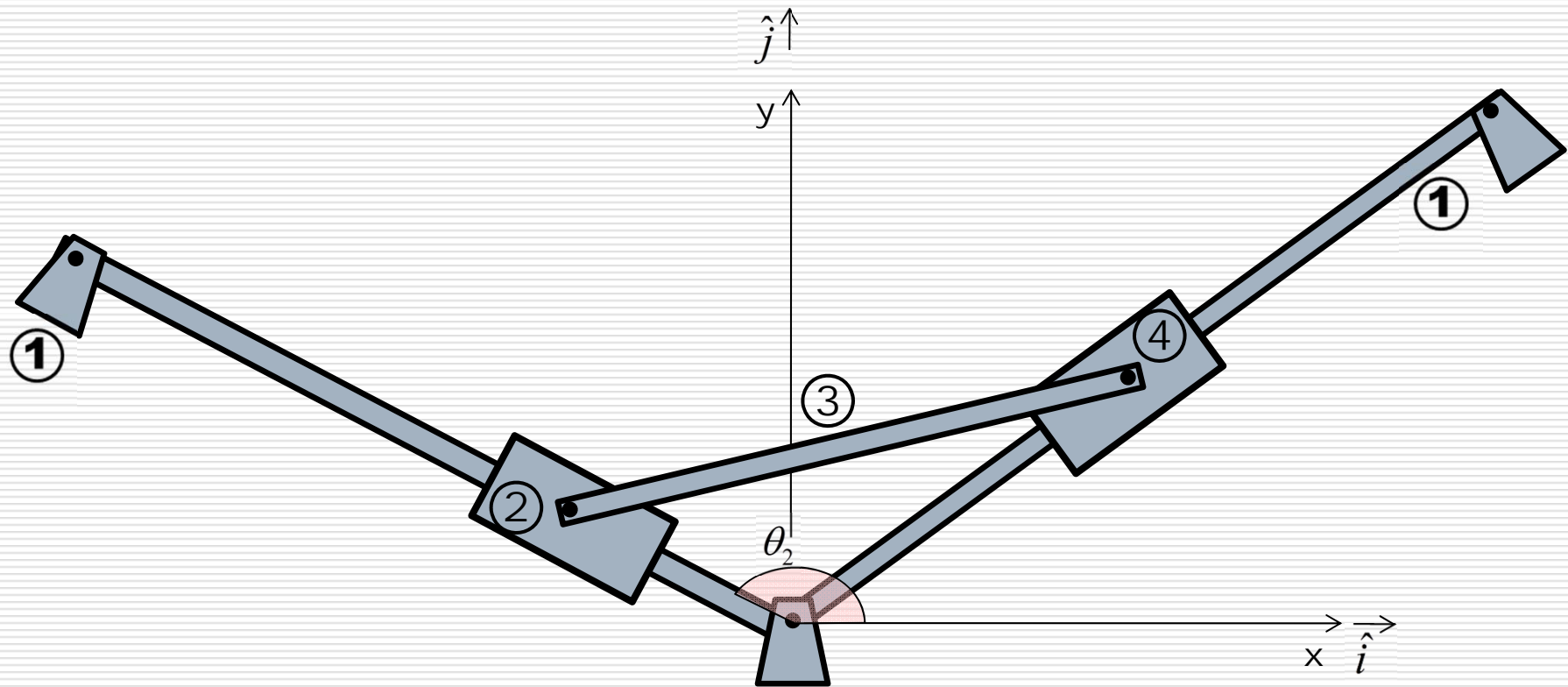
TYPE II: (RRRRP)



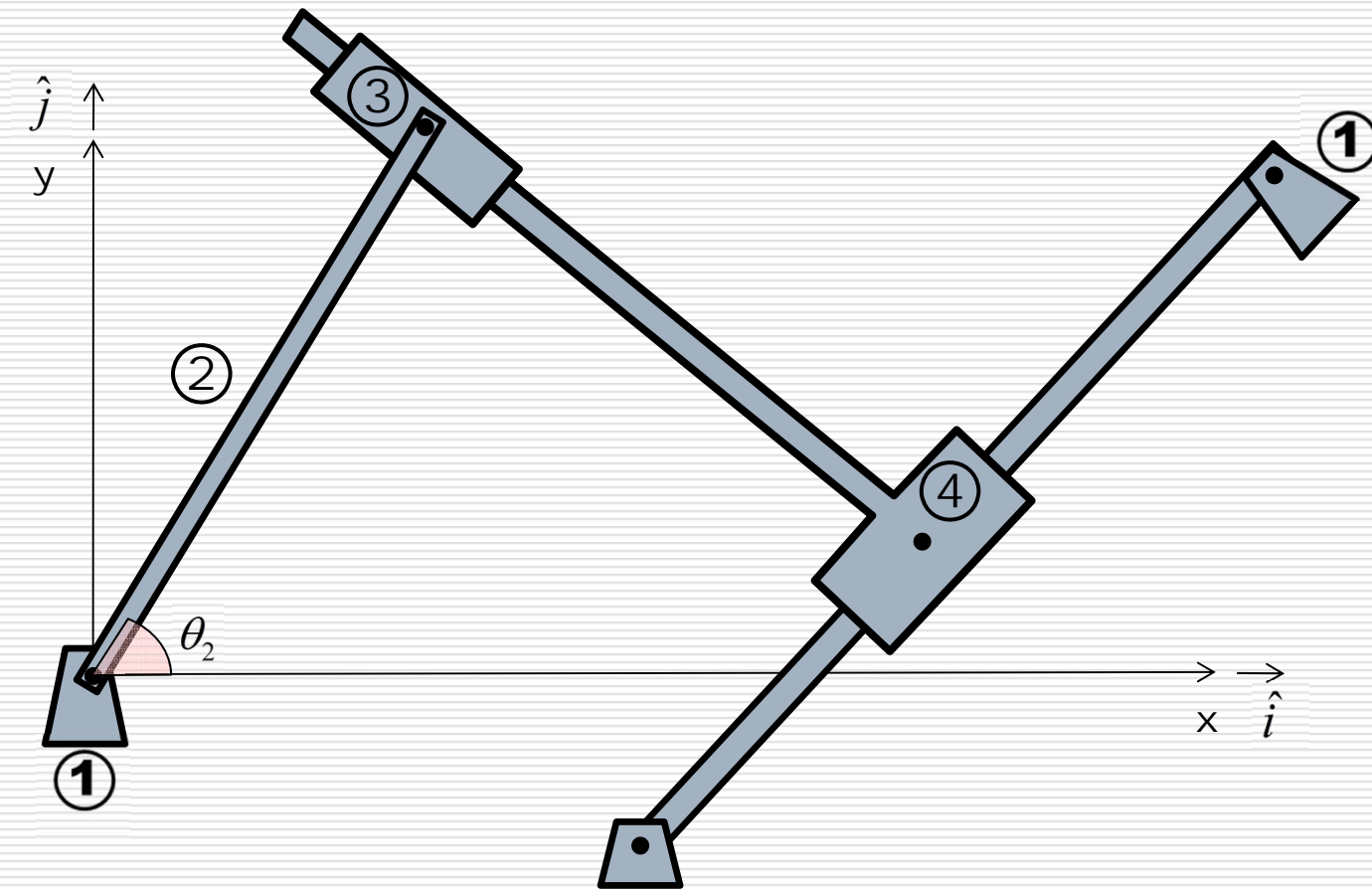
TYPE III: RRPP Elliptic Trammel



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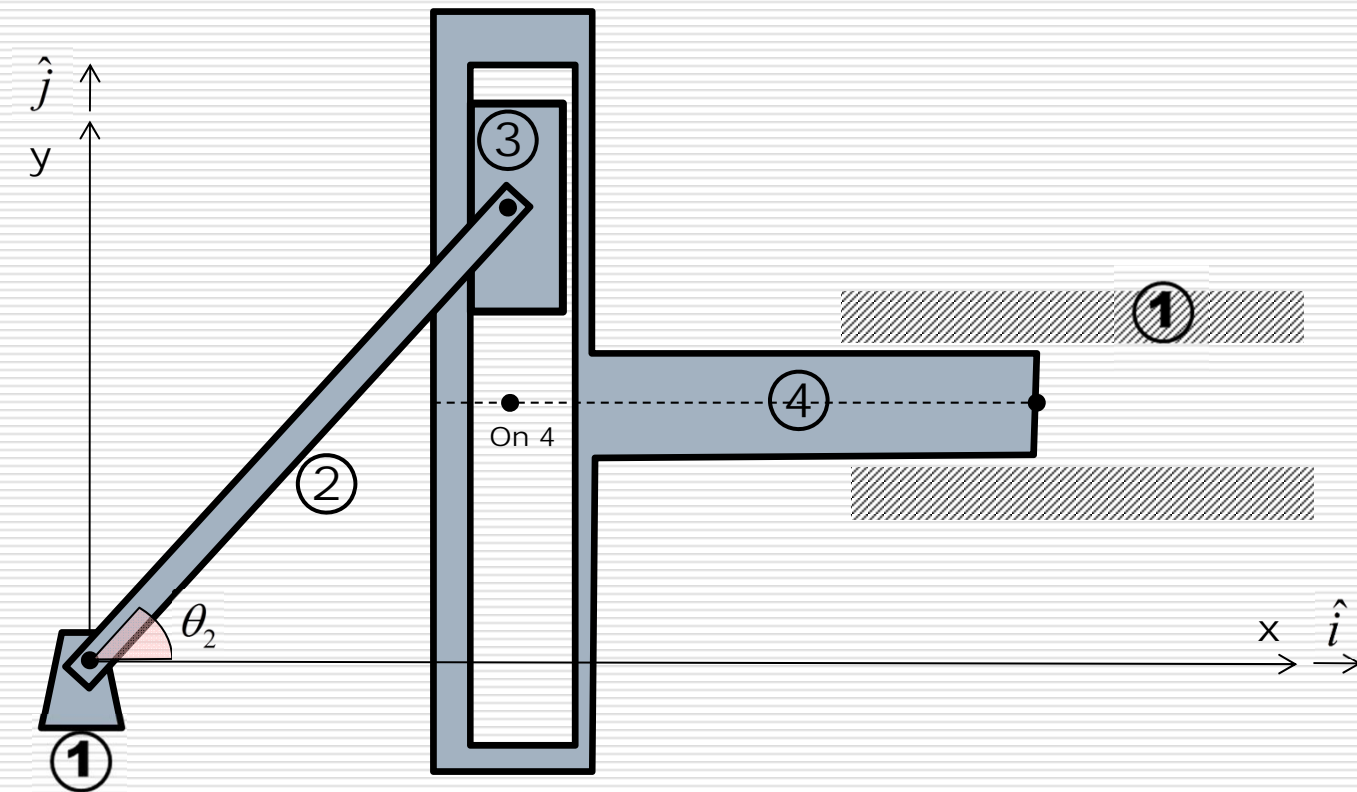


Type III: RRPP Elliptic Trammel



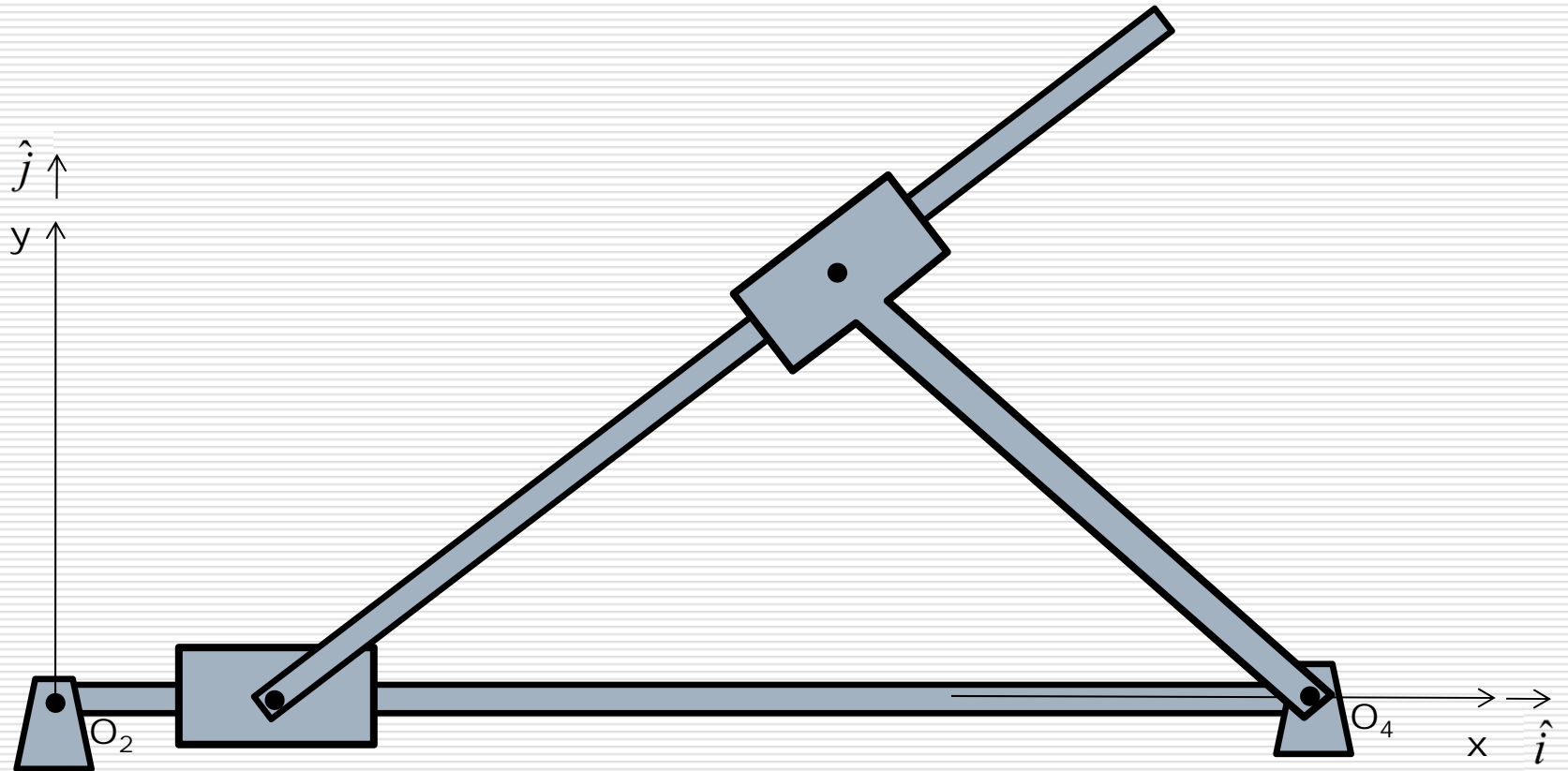
Type III: RRPP

Elliptic Trammel: Scotch Yoke

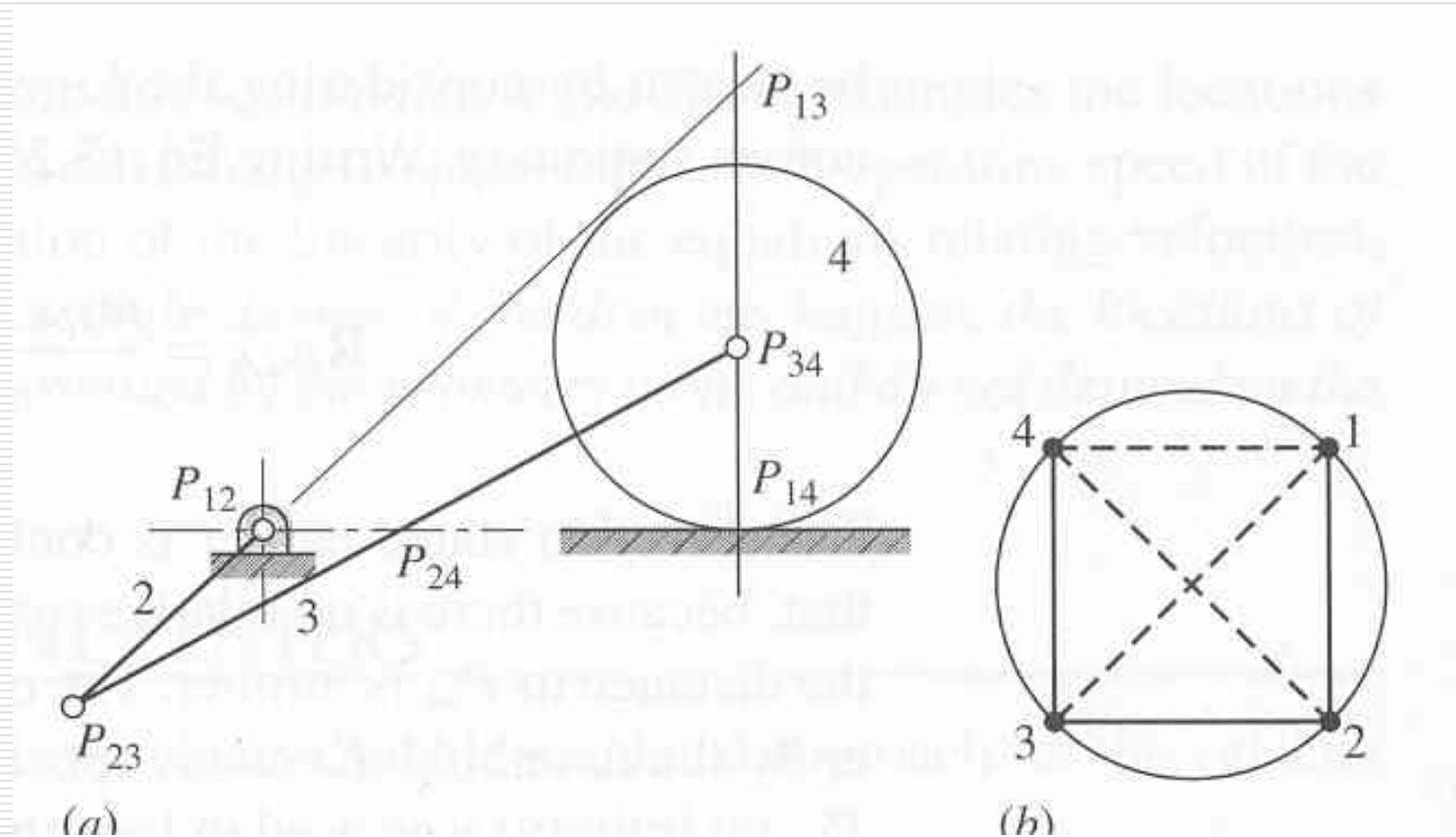


Type IV: RPRP

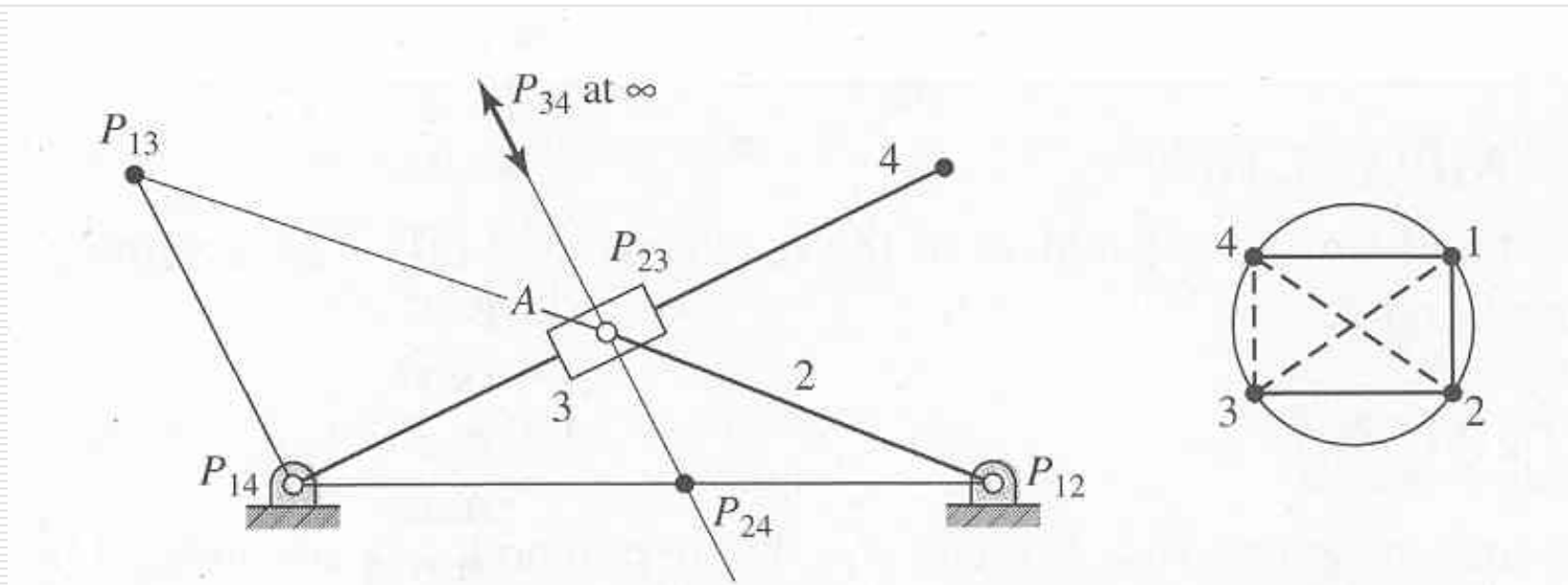
Rapson Slide Linkage



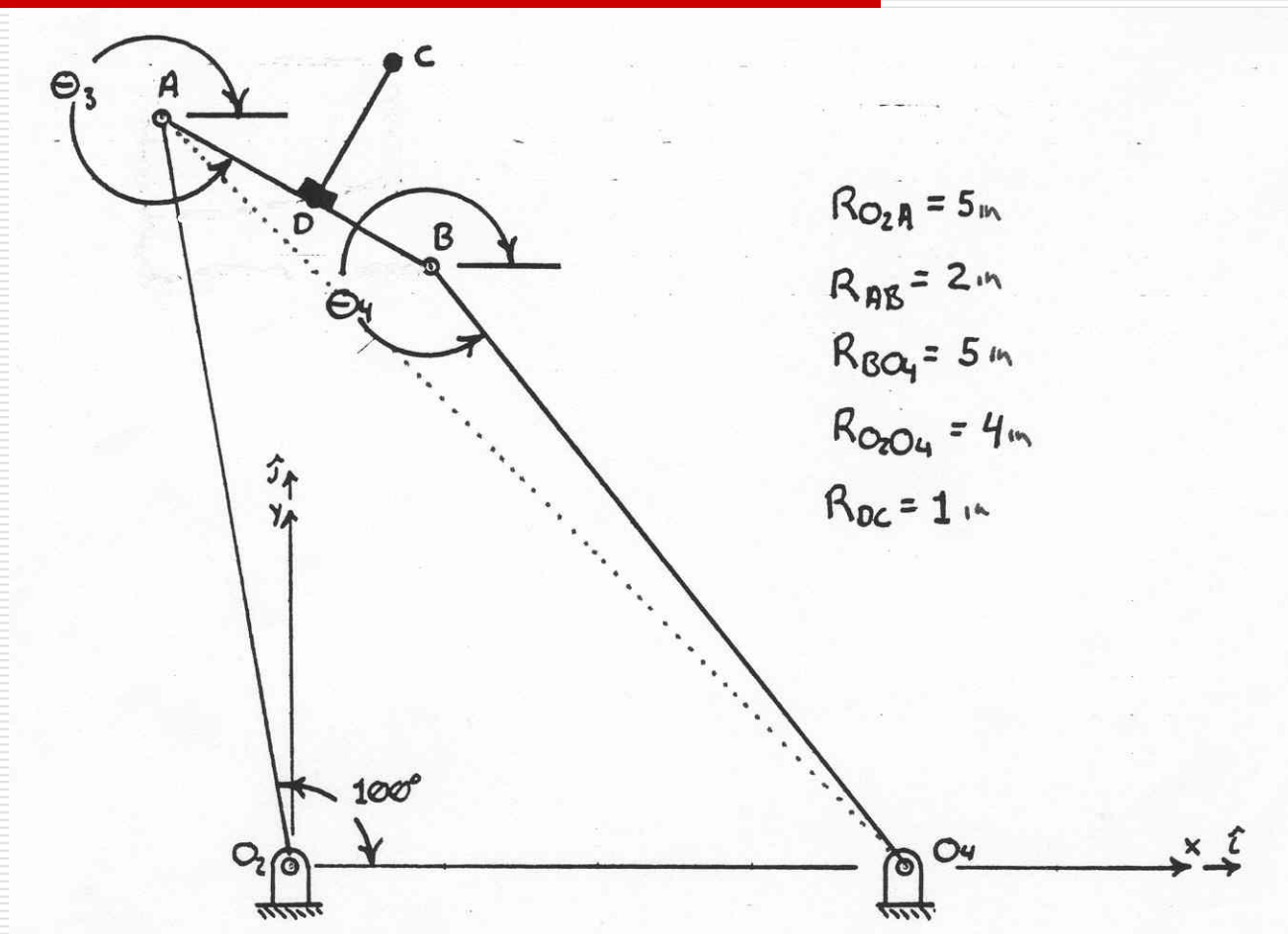
Rolling Instant Centers



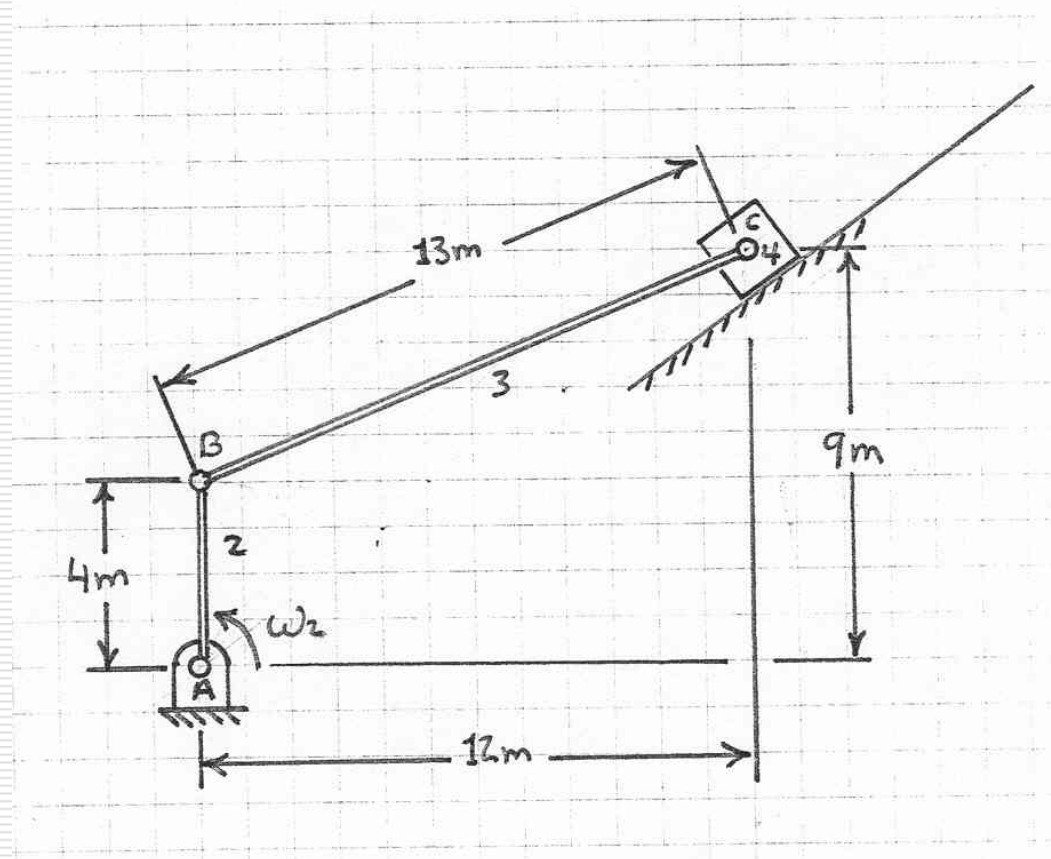
Sliding Instant Centers



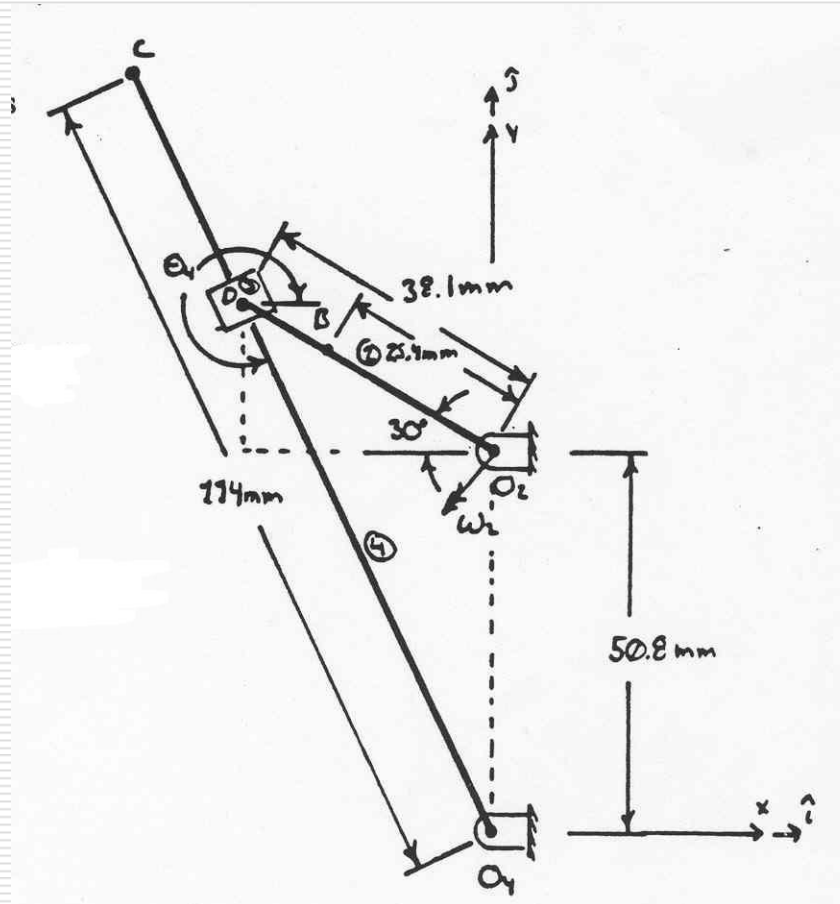
4 Bar Linkage Instant Centers



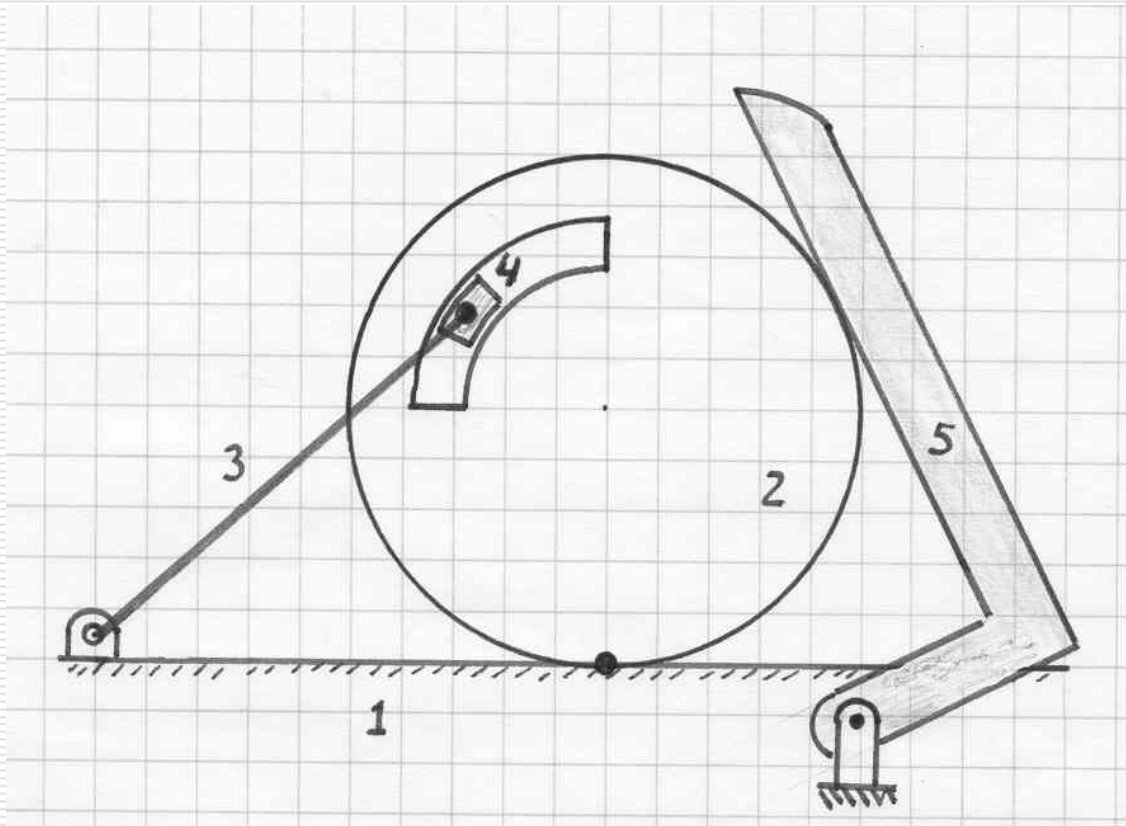
Slider Crank Instant Centers



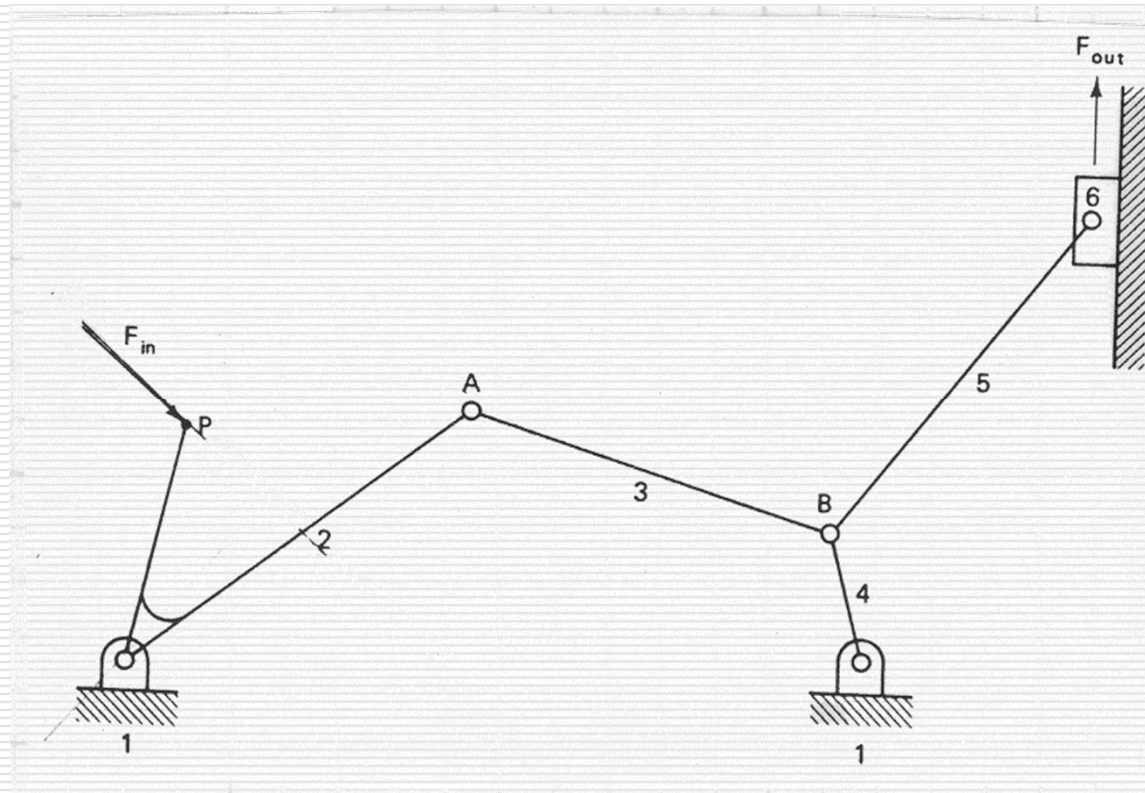
Another Slider Crank



Instant Centers



Six Bar Linkage



Instant Centers for 6 Bar Linkage

