

1.8 Inversion

FIX a link that WAS FREE, and FREE the link that WAS FIXED.

Same RELATIVE motion, but different overall behavior.

1.9 Grashof's Law (determines whether continuous rotation is possible)

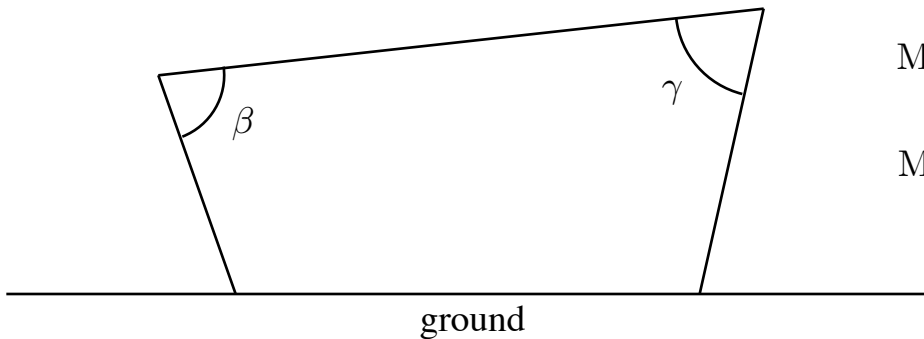
$$\Sigma(s + l) \leq \Sigma(p + q)$$



If this is true the mechanism
will rotate continuously

1.10 Mechanical Advantage

$$\text{MA} = \frac{\text{Output Torque}}{\text{Necessary Input Torque}}$$



MA proportional to $\sin \gamma$ (90° best)

MA proportional to $\frac{1}{\sin \beta}$

(MA = ∞ at $\beta = 0, 180^\circ$)

Chapter 1 HW: 1, 2, 4, 5, 16, 17



ADAMS Only



Build One!!