





EX: At t = 0, a flywheel has an angular velocity of 4.7 rad/s, a constant angular acceleration of -0.25 rad/s², and a reference line at $\theta_0 = 0$. (a) Through what max angle will the reference line turn in the positive direction? What are the (b) first and (c) second times the ref line will be at $\theta = \theta_{max}$? 40 20 10 20 t 30 40 -10 50 Ò, 20 -40 -60



Newton's Laws of Motion



- 1. If $\vec{F}_{NET} = 0$, then $\vec{v} = \text{constant}$
 - ✤ Mass is a measure of inertia

2.
$$\vec{F}_{NET} = m \vec{a}$$

The "net force" is the sum total of ALL forces!
3. $\vec{F}_{12} = -\vec{F}_{21}$

