

TORQUE + ROTATIONAL E2

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Comparison of linear + Angular Components

Linear unit	Displacement	velocity	acceleration
Angular Unit	θ theta	ω omega	α alpha

Linear Equation

$$x_f = x_i + vt$$

$$v_f = v_i + at$$

$$v_f^2 = v_i^2 + 2a\Delta x$$

$$\Delta x = v_i t + \frac{1}{2}at^2$$

Angular version

$$\theta_f = \theta_i + \omega t$$

$$\omega_f = \omega_i + \alpha t$$

$$\omega_f^2 = \omega_i^2 + 2\alpha\Delta\theta$$

$$\Delta\theta = \omega_i t + \frac{1}{2}\alpha t^2$$

Converting linear to angular

$$\theta = \frac{s}{r} \leftarrow \text{arc length}$$

$$\omega = \frac{v}{r} = \frac{\theta}{t}$$

$$\alpha = \frac{a}{r} = \frac{\omega}{t}$$

Degrees to π radians

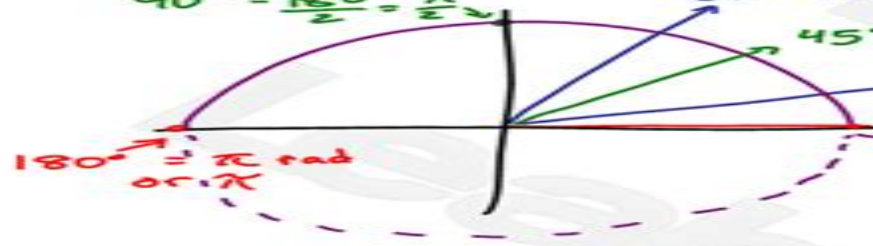
$$90^\circ = \frac{180^\circ}{2} = \frac{\pi}{2}$$

$$60^\circ = \frac{180^\circ}{3} = \frac{\pi}{3}$$

$$45^\circ = \frac{180^\circ}{4} = \frac{\pi}{4}$$

$$30^\circ = \frac{180^\circ}{6} = \frac{\pi}{6}$$

$$360^\circ = 2(180^\circ) = 2\pi$$



$$\begin{aligned} \tau &= r F \sin \theta \\ &= r F \text{ perpendicular} \\ &= F l \text{ lever arm} \\ &= I \alpha \\ &= \Delta L / \Delta t \end{aligned}$$

Rotational Equilibrium

$$\begin{aligned} \sum \tau &= 0 \\ \sum F_x &= 0 \\ \sum F_y &= 0 \end{aligned}$$

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