

Cinemática · Formulario

<p style="text-align: center;">M.R.U.</p> $\mathbf{x} = \mathbf{x}_0 + \mathbf{v} \cdot t$	<p style="text-align: center;">M.R.U.A.</p> $\mathbf{x} = \mathbf{x}_0 + \mathbf{v}_0 \cdot t + \frac{1}{2} \mathbf{a} \cdot t^2$ $\mathbf{v} = \mathbf{v}_0 + \mathbf{a} \cdot t$
<p style="text-align: center;">Tiro Vertical</p> $y = y_0 + v_0 \cdot t - \frac{1}{2} \cdot g \cdot t^2$ $v = v_0 - g \cdot t$	<p style="text-align: center;">Tiro Horizontal</p> $\begin{cases} x = v_0 \cdot t \\ y = y_0 - \frac{1}{2} \cdot g \cdot t^2 \end{cases}$ $\begin{cases} v_x = v_0 \\ v_y = -g \cdot t \end{cases}$ $v = \sqrt{v_x^2 + v_y^2}$
<p style="text-align: center;">Tiro Oblicuo</p> $\begin{cases} x = v_0 \cdot \cos \alpha \cdot t \\ y = y_0 + v_0 \cdot \sin \alpha \cdot t - \frac{1}{2} \cdot g \cdot t^2 \end{cases}$ $\begin{cases} v_x = v_0 \cdot \cos \alpha \\ v_y = v_0 \cdot \sin \alpha - g \cdot t \end{cases}$ $v = \sqrt{v_x^2 + v_y^2}$	<p style="text-align: center;">M.C.U.</p> $\theta = \omega \cdot t$ $n^\circ \text{ vueltas} = \frac{\theta}{2\pi}$ $s = \theta \cdot R$ $\omega = \frac{2\pi}{T}$ $\omega = \frac{\theta}{t}$ $v = \omega \cdot R$ $a_n = \frac{v^2}{R}$
<p style="text-align: center;">M.C.U.A.</p> $\theta = \theta_0 + \omega_0 \cdot t + \frac{1}{2} \cdot \alpha \cdot t^2$ $\alpha = \frac{\omega - \omega_0}{t}$ $a_n = \frac{v^2}{R}$ $a_t = \alpha \cdot R$ $n^\circ \text{ vueltas} = \frac{\theta}{2\pi}$	