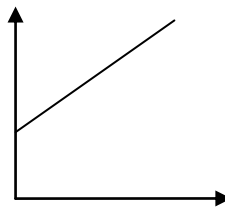
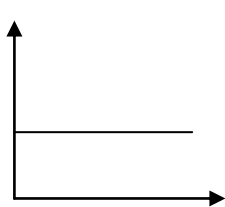
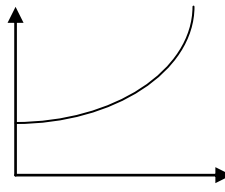
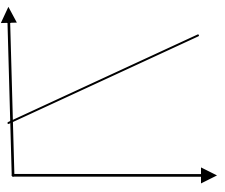
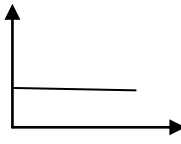


FÓRMULAS DE CINEMÁTICA

FÓRMULAS → UNIDADES

GRÁFICAS

MOVIMIENTO $\Delta e \neq 0$	RECTILINEO $a_n = 0$	(MRU) UNIFORME $v = \text{cte}$ $a_t = 0$	Posición: $s = s_0 + v \cdot t \rightarrow (m) = (m) + \left(\frac{m}{s}\right) \cdot (s)$	s/t 	v/t 	MRU
		(MRUV)	Posición: $s = s_0 + v_0 \cdot t + \frac{1}{2} a t^2 \rightarrow (m) = (m) + \left(\frac{m}{s}\right)(s) + \left(\frac{m}{s^2}\right)s^2$	s/t 	v/t 	MRUV
		UNIFORM. VARIADO $a_t \neq 0$	Velocidad: $v = v_0 + a \cdot t \rightarrow \left(\frac{m}{s}\right) = \left(\frac{m}{s}\right) + \left(\frac{m}{s^2}\right)s$			
		Combinación lineal: $v^2 = v_0^2 + 2 \cdot a \cdot s \rightarrow \left(\frac{m^2}{s^2}\right) = \left(\frac{m^2}{s^2}\right) + \left(\frac{m}{s^2}\right) \cdot m$	a/t 			
	CIRCULAR $a_n \neq 0$	(MCU) UNIFORME $\omega = \text{cte}$ $\alpha = 0$	Posición angular: $\varphi = \varphi_0 + \omega t \rightarrow (rd) = (rd) + \left(\frac{rd}{s}\right) \cdot (s)$	Ecuaciones que ligan R→C $s = \varphi \cdot r \rightarrow (m) = (rd) \cdot \left(\frac{m}{rd}\right)$ $v = \omega \cdot r \rightarrow \left(\frac{m}{s}\right) = \left(\frac{rd}{s}\right) \cdot \left(\frac{m}{rd}\right)$ $a = \alpha \cdot r \rightarrow \left(\frac{m}{s^2}\right) = \left(\frac{rd}{s^2}\right) \cdot \left(\frac{m}{rd}\right)$ ECUACIÓN DE LA ACCELERACIÓN NORMAL $a_n = \frac{v^2}{r} = \omega^2 \cdot r$		Tiro parabólico $t_v = \frac{2v_0 \cdot \text{sen} \alpha}{g}$ $x_{\text{max}} = \frac{v_0^2 \cdot \text{sen} 2\alpha}{g}$ $y_{\text{max}} = \frac{v_0^2 \cdot \text{sen}^2 \alpha}{2g}$
		(MCUV)	Posición angular: $\varphi = \varphi_0 + \omega_0 \cdot t + \frac{1}{2} \alpha t^2 \rightarrow (rd) = (rd) + \left(\frac{rd}{s}\right)(s) + \left(\frac{rd}{s^2}\right)s^2$			
		UNIFORM. VARIADO $\alpha \neq 0$	Velocidad angular: $\omega = \omega_0 + \alpha t \rightarrow \left(\frac{rd}{s}\right) = \left(\frac{rd}{s}\right) + \left(\frac{rd}{s^2}\right)s$			
		Combinación lineal: $\omega^2 = \omega_0^2 + 2 \cdot \alpha \cdot \varphi \rightarrow \left(\frac{rd^2}{s^2}\right) = \left(\frac{rd^2}{s^2}\right) + \left(\frac{rd}{s^2}\right) \cdot rd$				