FORMULARIO DE Física I

$$K = ℃ + 273 \qquad ℃ = K - 273 \qquad ℉ = 1.8℃ + 32 \qquad ℃ = \frac{℉ - 32}{1.8}$$

$$\boldsymbol{F_x} = \mathbf{F} \cdot \cos\theta \qquad \boldsymbol{F_y} = \mathbf{F} \cdot \sin\theta \qquad \boldsymbol{FR} = \sqrt{\boldsymbol{F_x^2} + \boldsymbol{F_y^2}} \qquad \theta = TAN^{-1}\left(\frac{\boldsymbol{Fy}}{\boldsymbol{Fx}}\right)$$

$$\boldsymbol{FR} = \sqrt{\boldsymbol{F_1^2} + \boldsymbol{F_2^2} - 2\boldsymbol{F_1}\boldsymbol{F_2}\cos\theta} \qquad \frac{SENA}{a} = \frac{SENB}{b} = \frac{SENC}{c}$$

$$si\ \vec{A} = ai + aj\ y\ \vec{B} = bi + bj \qquad bj \qquad \left\|\vec{A}\right\| = \sqrt{ai^2 + aj^2}$$

$$\vec{A} + \vec{B} = ai + bi + aj + bj \qquad \vec{A} - \vec{B} = ai + bi - (aj + bj)$$

$$d = vt \qquad v_m = \frac{v_f + v_0}{2} \qquad v_m = \frac{d_2 - d_1}{t_2 - t_1} \qquad v_{inst} = \frac{d_2 - d_1}{t_2 - t_1}$$

$$d = v_0 t + \frac{at^2}{2} \qquad d = \frac{{v_f}^2 - {v_0}^2}{2a} \qquad d = \frac{v_f + v_0}{2}t \qquad v_f = v_0 + at \qquad v_f^2 = v_0^2 + 2ad$$

Con notación referenciada al plano cartesiano:

$$x = x_0 + vt \qquad v = v_0 + at \qquad x = x_0 + v_0 t + \frac{1}{2}at^2 \qquad v_f^2 = v_0^2 + 2a(x - x_0)$$

$$h = v_0 t + \frac{gt^2}{2} \qquad d = \frac{{v_f}^2 - {v_0}^2}{2g} \qquad h = \frac{v_f + v_0}{2}t \qquad v_f = v_0 + gt \qquad v_f^2 = v_0^2 + 2gh$$

$$v_{o_v} = v_0 sen\alpha \qquad v_h = v_0 \cos\alpha \qquad h_{max} = -\frac{v_{0v}^2}{2g}$$

$$t_{(subir)} = -\frac{v_{0_v}}{g} \qquad t_{(aire)} = -\frac{2v_{0v}}{g} \qquad d_H = v_H t_{(aire)} \qquad d_H = -\frac{v_0^2 \operatorname{sen} 2\theta}{g}$$

Con notación referenciada al plano cartesiano:

$$y = y_0 + vt \qquad v = v_0 + gt \qquad y = y_0 + v_0 t + \frac{1}{2}gt^2 \qquad v_f^2 = v_0^2 + 2g(y - y_0)$$

$$v_x = v_0 \cdot \cos\theta \qquad v_y = v_0 \cdot \operatorname{sen}\theta$$

$$T = \frac{1}{f} \qquad f = \frac{1}{T} \qquad \omega = \frac{2\pi}{T} \qquad \omega = 2\pi F \qquad \theta = \omega t \qquad \pi RAD = 180º$$

$$\omega_m = \frac{\omega_f - \omega_0}{2} \qquad \alpha_m = \frac{\omega_f - \omega_0}{t_f - t_0} \qquad \theta = \omega_0 t + \frac{1}{2}\alpha t^2 \qquad \theta = \frac{\omega_f^2 = \omega_0^2}{2\alpha} \qquad \theta = \frac{\omega_f + \omega_0}{2}t$$

$$\omega_f = \omega_0 + \alpha t \qquad \omega_f^2 = \omega_0^2 + 2\alpha d \qquad V_L = \frac{2\pi r}{T} \qquad V_L = \omega r \qquad a_L = \alpha r \qquad a_r = \omega^2 r \qquad a_r = \frac{V_L^2}{T}$$