

Formulário para a Prova Integradora de Física Mecânica, 2017_2

$v_m = \frac{\Delta x}{\Delta t}$	$v = \frac{dx}{dt}$	$x_2 = x_1 + v\Delta t$	$g = 10 \text{ m/s}^2$
$a_m = \frac{\Delta v}{\Delta t}$	$a = \frac{dv}{dt}$	$v_2 = v_1 + a\Delta t$	$x_2 - x_1 = \frac{v_1 + v_2}{2} \Delta t$
$v_2^2 = v_1^2 + 2a\Delta x$	$x_2 = x_1 + v_1\Delta t + \frac{a\Delta t^2}{2}$		$1 \text{ m/s} = 3,6 \text{ km/h}$
$F = ma$	$F_{at} = \mu N$	$\tau = F\Delta x$	
$P = \frac{\tau}{\Delta t} = Fv$	$E_{m_{inicial}} = E_{m_{final}}$	$E_m = E_c + E_p + E_{el}$	
$E_c = \frac{mv^2}{2}$	$E_p = mgh$	$E_{el} = \frac{kx^2}{2}$	