

$\tau = rF \sin \theta$	$\rho_{water} = 1000kg/m^3$	$L = mrv$
$\Sigma F_x = 0$	$\Sigma F_y = 0$	$\Sigma \tau = 0$
$\tau = I\alpha$	$L = I\omega$	$F = G\frac{m_1m_2}{r^2}$
$G = 6.67 \times 10^{-11} Nm^2/kg^2$	$g = \frac{GM}{R^2}$	$U = -G\frac{m_1m_2}{r}$
$v_e = \sqrt{\frac{2GM}{R}}$	$KE = (1/2)mv^2$	
$f = 1/T$	$\omega = 2\pi f$	$x = A \cos(\omega t)$
$v = -A\omega \sin(\omega t)$	$a = -A\omega^2 \cos(\omega t)$	$\omega = \sqrt{k/m}$
$E = \frac{1}{2}kA^2$	$T = 2\pi\sqrt{L/g}$	$A = A_0e^{-bt/2m}$
$v = \lambda f$	$I = P/A$	$I = P/(4\pi r^2)$
$\beta = 10 \log(I/I_0)$	$I = I_010^{(\beta/10)}$	$I_0 = 10^{-12} W/m^2$
$f' = \left(\frac{1 \pm u_o/v}{1 \mp u_s/v}\right)f$	$\rho = M/V$	$P = F/A$
$P_g = P - P_{atm}$	$P = P_{atm} + \rho gh$	$V_{sub} = V_s(\rho_s/\rho_f)$

$$1 \text{ atm} = 1.01 \times 10^5 \text{ Pa}$$