Possibly useful relations:

$\vec{A} = A_x\hat{i} + A_y\hat{j} + A_z\hat{k}$	$\lvert\vec{A}\rvert = \sqrt{A_x^2 + A_y^2 + A_z^2}$	
$\vec{v}_{\rm avg} = \frac{\Delta\vec{r}}{\Delta t}$	$\vec{v}(t) = \frac{d\vec{r}}{dt}$	$\vec{a}_{\rm avg} = \frac{\Delta\vec{v}}{\Delta t}$
$\vec{a}(t) = \frac{d\vec{v}}{dt}$	$\vec{v}_f = \vec{v}_i + \vec{a}t$	$v_{\rm avg} = \frac{v_i + v_f}{2}$
$x_f = x_i + v_i t + \frac{1}{2}at^2$	$\vec{r}_f = \vec{r}_i + \vec{v}_i t + \frac{1}{2}\vec{a}t^2$	$x_f = x_i + v_{\rm avg}t$
$v_f^2 = v_i^2 + 2a\Delta x$		$a_c = \frac{v^2}{r}$
$v = \frac{2\pi r}{T}$	$v = r\omega$	$\omega = \frac{2\pi}{T}$
$\vec{v}_{AB} = \vec{v}_{AC} + \vec{v}_{CB}$	$\Sigma\vec{F} = m\vec{a}$	$\vec{F}_{AB} = -\vec{F}_{BA}$
$\vec{W} = m\vec{g}$	$f_S \leq \mu_S N$	$f_K = \mu_K N$
$W = F\Delta x$	$W = \vec{F}\cdot\Delta\vec{r}$	$W = \int\vec{F}\cdot d\vec{r}$
$W = \Delta K$	$K = \frac{1}{2}mv^2$	$\Delta U = -W$
$\vec{A}\cdot\vec{B} = AB\cos\theta = A_xB_x + A_yB_y + A_zB_z$		$F_x = -\frac{dU}{dx}$
$F = -kx$		
$U = mgy + U_0$	$U = \frac{1}{2}kx^2 + U_0$	$K_i + U_i = K_f + U_f$
$\Delta U + \Delta K + \Delta E_{\rm int} = W^{\rm ext}$	$\Delta E_{\rm int} = f_K d$	$E_{\rm total}^{\rm isolated} = {\rm const.}$
$P = \frac{dE}{dt}$	$P = \frac{dW}{dt}$	$P = \vec{F}\cdot\vec{v}$
$\vec{p} = m\vec{v}$	$\vec{F} = \frac{d\vec{p}}{dt}$	$\vec{p}_{\rm total} = {\rm const.}$
$\vec{I} = \Delta\vec{p} = \int\vec{F}dt = \vec{F}_{\rm av}\Delta t$	$\vec{r}_{\rm cm} = \frac{1}{M}\Sigma\vec{r}_i m_i$	$\vec{r}_{\rm cm} = \frac{1}{M}\int\vec{r}dm$
$\Sigma\vec{F}_{\rm ext} = M\vec{a}_{\rm cm}$	$M\vec{v}_{\rm cm} = \vec{p}_{\rm total}$	
$\cos\theta = $ adj./hypo.	$\sin\theta = $ opp./hypo.	$\tan\theta = \frac{\sin\theta}{\cos\theta}$
$x = \frac{-b\pm\sqrt{b^2-4ac}}{2a}$	$g = 9.8\ {\rm m/s^2}$ downward	