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11 N m<sup>2</sup>=kg<sup>2</sup> Vector Principles  $\vec{A} = A_x \hat{i} + A_y \hat{j} + A_z \hat{k}$  ( $A_x; A_y; A_z$ ) ;  $\vec{A} \cdot \vec{A} = |\vec{A}|^2$  ;  $\vec{a} \cdot \vec{b} = ab \cos \theta$  ;  $\vec{a} \times \vec{b} = ab \sin \theta \hat{n}$  ; Kinematics  $\vec{r} = x\hat{i} + y\hat{j}$  ;  $\vec{v} = \frac{d\vec{r}}{dt}$  ;  $\vec{a} = \frac{d\vec{v}}{dt} = \frac{d^2\vec{r}}{dt^2}$  ;  $x(t) = x_0 + \int_{t_0}^t v(t) dt$  ;  $v(t) = v_0 + \int_{t_0}^t a(t) dt$  ;  $\vec{a} \cdot \vec{v} = \frac{d}{dt} (\frac{1}{2} v^2)$  ;  $\vec{a} \cdot \vec{v} = v \frac{dv}{dt}$

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## Equation Sheet For Engineering Mechanics 12 Dynamics

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