Provided Formulas:

$$\bar{v} = \frac{\Delta x}{\Delta t} \quad \bar{v} = \frac{v + v_0}{2} \quad v = v_0 + at \quad a = \frac{\Delta v}{\Delta t}$$

$$\Delta x = v_0 t + \frac{1}{2}at^2 \quad \Sigma F = ma \quad \Sigma F = \text{Vector sum of forces}$$

$$W = mg \quad F_{Fr} = \mu F_N$$

$$a_{\substack{\text{uniform}\\ \text{circle}}} = \frac{v^2}{r} \quad \Sigma F_{\substack{\text{uniform}\\ \text{circle}}} = \frac{mv^2}{r}$$

$$F_{gravity} = G\frac{Mm}{r^2} \quad G = 6.67 \times 10^{-11}\ \frac{Nm^2}{Kg^2}$$

$$\frac{T_A^2}{T_B^2} = \frac{r_A^3}{r_B^3} \quad W = Fd \quad P = \frac{W}{t} \quad W_{Net} = \Delta KE$$

$$KE = \frac{1}{2}mv^2 \quad PE_{grav} = mgh \quad PE_{spring} = \frac{1}{2}kx^2$$

$$F_{spring} = -kx \quad KE_i + PE_i + W_{NC} = KE_f + PE_f$$

Not always present

Can be grav, spring, or both

Not Provided, but helpful to know or be able to derive!

$$g = \frac{GM}{r^2} \quad v = \sqrt{\frac{GM}{r}}$$