## Physics Honors Equations Sheet - Lundy

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Useful equations:

$$\begin{split} V_f &= V_i + at \\ a &= \frac{V_f - V_i}{t} \\ a &= \frac{V_f - V_i}{t} \\ \Delta x &= \frac{1}{2}at^2 + V_i t \\ V_{iy} &= \sin\theta \cdot V_i \\ \Delta x_x &= V_x \cdot t \\ |F_{sf}| &= \mu_s \cdot |F_n| \\ F &= ma \\ GPE &= mgh \\ GPE &= mgh \\ P &= \frac{1}{2}kx^2 \\ W &= Fd\cos\theta \\ P &= \frac{W}{t} \\ P &= m \cdot v \\ w_{av} &= \frac{\theta}{t} \\ \theta &= \frac{1}{2}\alpha t^2 + \omega_i t \\ \theta &= \frac{1}{2}\alpha t^2 + \omega_i t \\ F_{c} &= \frac{mv^2}{r} = m \cdot \omega^2 \cdot r \\ F_{grav} &= \frac{G \cdot m_1 \cdot m_2}{d^2} \\ V_{wave} &= \lambda \cdot f \\ V_{iy} &= \sin\theta \cdot V_i \\ V_{i} &= \sin\theta \cdot V_{i} \\ V_$$

## Stuck? Try:

- Listing variables
- Considering which variables are 0
- Drawing a picture
- Looking for an equation that matches the variables