HW15a

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$$\overline{F_{avg}} = \overline{J}^{2} = \frac{m(v_{f}(os\theta + mv_{i}))}{st} + mv_{g}sin\theta j}$$

$$2: V_{G} = \sqrt{\left(\frac{1}{2}\frac{m}{M}Vsin\theta\right)^{2} + \left(V - \frac{1}{2}\frac{m}{M}Vcos\theta\right)^{2}}$$

$$\overline{J} = \frac{1}{2}mV\left(sin\theta + cos\theta + sin\theta cos\theta\right)$$

$$3. V_{i} = \frac{mv}{m+M}\left(cos\theta + sin\theta cos\theta\right)$$

$$4. \quad \phi = avcsan\left(\frac{v_{g}sin\theta}{3V + V_{d} + V_{g}cos\theta}\right)$$