

# Problem 1.14

[Difficulty: 4]

**1.14.** A sky diver with a mass of 70 kg jumps from an aircraft. The aerodynamic drag force acting on the sky diver is known to be  $F_D = kV^2$ , where  $k = 0.25 \text{ N}\cdot\text{s}^2/\text{m}^2$ . Determine the maximum speed of free fall for the sky diver and the speed reached after 100 m of fall. Plot the speed of the sky diver as a function of time and as a function of distance fallen.

**Given:** Data on sky diver:  $M = 70\text{-kg}$   $k = 0.25 \cdot \frac{\text{N}\cdot\text{s}^2}{\text{m}^2}$

**Find:** Maximum speed; speed after 100 m; plot speed as function of time and distance.

**Solution:** Use given data; integrate equation of motion by separating variables.

Treat the sky diver as a system; apply Newton's 2nd law:

Newton's 2nd law for the sky diver (mass  $M$ ) is (ignoring buoyancy effects):

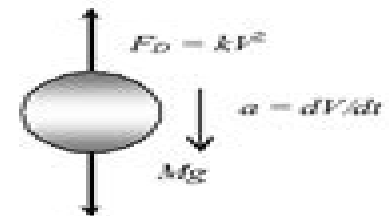
$$M \cdot \frac{dV}{dt} = M \cdot g - k \cdot V^2 \quad (1)$$

(a) For terminal speed  $V_t$ , acceleration is zero, so  $M \cdot g - k \cdot V^2 = 0$  so

$$V_t = \sqrt{\frac{M \cdot g}{k}}$$

$$V_t = \left( 70\text{-kg} \times 9.81 \cdot \frac{\text{m}}{\text{s}^2} \times \frac{\text{m}^2}{0.25\text{-N}\cdot\text{s}^2} \cdot \frac{\text{N}\cdot\text{s}^2}{\text{kg}\cdot\text{m}} \right)^{\frac{1}{2}}$$

$$V_t = 52.4 \frac{\text{m}}{\text{s}}$$



(b) For  $V$  at  $y = 100 \text{ m}$  we need to find  $V(y)$ . From (1)  $M \cdot \frac{dV}{dt} = M \cdot \frac{dV}{dy} \cdot \frac{dy}{dt} = M \cdot V \cdot \frac{dV}{dy} = M \cdot g - k \cdot V^2$

Separating variables and integrating:

$$\int_0^V \frac{V}{1 - \frac{k \cdot V^2}{M \cdot g}} dV = \int_0^y g dy$$

so  $\ln\left(1 - \frac{k \cdot V^2}{M \cdot g}\right) = -\frac{2 \cdot k}{M} y$  or  $V^2 = \frac{M \cdot g}{k} \cdot \left(1 - e^{-\frac{2 \cdot k \cdot y}{M}}\right)$

Hence  $V(y) = V_t \cdot \left(1 - e^{-\frac{2 \cdot k \cdot y}{M}}\right)^{\frac{1}{2}}$

For  $y = 100 \text{ m}$ :  $V(100\text{-m}) = 52.4 \cdot \frac{\text{m}}{\text{s}} \cdot \left(1 - e^{-\frac{2 \times 0.25 \cdot \frac{\text{N}\cdot\text{s}^2}{\text{m}^2} \times 100 \text{ m} \times \frac{1}{70\text{-kg}} \times \frac{\text{kg}\cdot\text{m}}{\text{s}^2\cdot\text{N}}}\right)^{\frac{1}{2}}$   $V(100\text{-m}) = 37.4 \frac{\text{m}}{\text{s}}$

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precipitate 1 83 g of silver chloride is collected as precipitate

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