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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v^2 = \frac{2c}{\rho C_d A} (mg - \frac{1}{2} \rho C_d A v^2) t$ . Multiply both sides by  $m/c$ .  $gv^2 = \frac{2c}{\rho C_d A} m dt$  Define  $a = mg / c$ .  $a^2 v^2 dt = dv$  c m.

$d = -$ . Integrate by separation of variables,  $dt m c a v \quad dv = d 2$   
- 2.

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