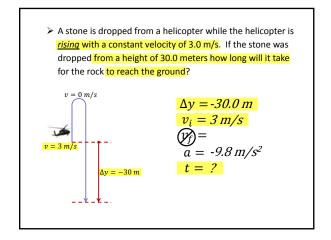
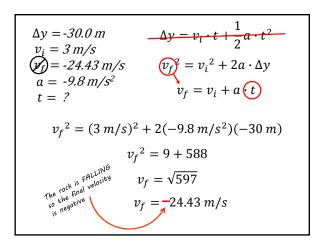
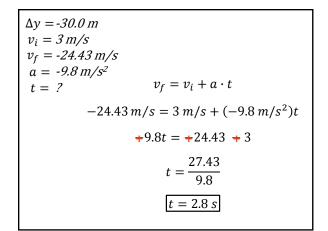
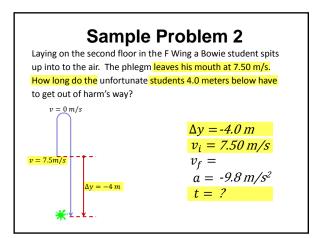
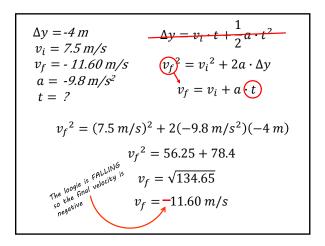
Solving For Time When the Initial Velocity is Not Zero











$$\begin{split} & \Delta y = -4.0 \ m \\ & v_i = 7.5 \ m/s \\ & v_f = -11.60 \ m/s \\ & a = -9.8 \ m/s^2 \\ & t = ? \\ & v_f = v_i + a \cdot t \\ & -11.60 \ m/s = 7.5 \ m/s + (-9.8 \ m/s^2)t \\ & +9.8t = +11.60 \ + 7.5 \\ & t = \frac{19.1}{9.8} \\ & \boxed{t = 1.95 \ s} \end{split}$$

