

$$\begin{aligned} \boxed{2/25} \quad v^2 &= v_0^2 + 2a(s-s_0) \\ 0 &= 4^2 + 2\left(-\frac{9.81}{4}\right)(s), \quad \underline{s = 3.26 \text{ m}} \\ v &= v_0 + at : 0 = 4 + \left(-\frac{9.81}{4}\right)t_{\text{up}}, \quad t_{\text{up}} = 1.63 \text{ s} \\ t &= 2t_{\text{up}} = 2(1.63) = \underline{3.26 \text{ s}} \end{aligned}$$