

3.4 At the instant that they fly apart, the velocities of both pieces are purely horizontal.

3.5 When finding the times at which the acrobat passes $y=h$, there are two possible solutions... should you pick the shorter or the longer?

3.7 There are two distinct time intervals in this problem: $0 < t \leq t_1$ and $t > t_1$, where time t_1 is when block #1 is no longer pinned to wall. Then, for time $t > t_1$, can the x-velocity of block #1 ever be < 0 ? Check p. 67 of the 2/9/05 lecture notes. Can block #1 ever bump into the wall again?

3.9 Think about the impulse

3.11 Read pages 134 + 135 of text

3.16 Call the density of water ρ_w . What quantity of water mass leaves the hydrant in time Δt ? What is its velocity? How much momentum does it take away?