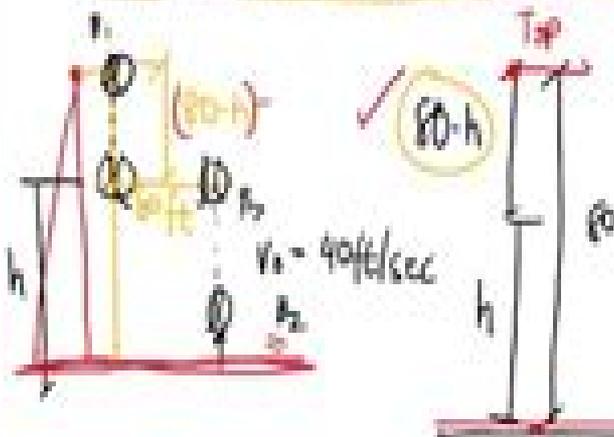


# DYNAMICS OF RIGID BODIES

## RECTILINEAR MOTION PART 1

3. A ball is dropped from the top of a tower 80 ft high at the same instant that a second ball is thrown upward from the ground with an initial velocity of 40 ft/sec.

When and where do they pass, and with what relative velocity?  $g = 32.2 \text{ ft/sec}^2$



ball 2

$$h = v_0 t + \frac{1}{2} a t^2$$
$$\checkmark h = 40t - \frac{1}{2} (32.2 \text{ ft/sec}^2) t^2$$
$$\checkmark (h) = 40t - \frac{1}{2} (32.2) t^2 \rightarrow \text{eqn 1}$$

ball 1

$$-(80-h) = v_0 t + \frac{1}{2} a t^2$$
$$\checkmark -(80-h) = \frac{1}{2} (-32.2) \left(\frac{t}{2}\right)^2$$

$$\checkmark -(80-h) = -16.1 t^2$$
$$\checkmark -(80-h) = -16.1 t^2$$

$$h - 80 = -16.1 t^2$$

$$\checkmark h = 80 - 16.1 t^2 \quad \text{--- eqn 2}$$

$$80 - 16.1 t^2 = 40t - 16.1 t^2$$

$$80 = 40t$$

$$t = \frac{80}{40} = 2s$$

$$\checkmark t = 2s$$



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# Rigid Body Dynamics Problems And Solutions

**Jianjun Gao**



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