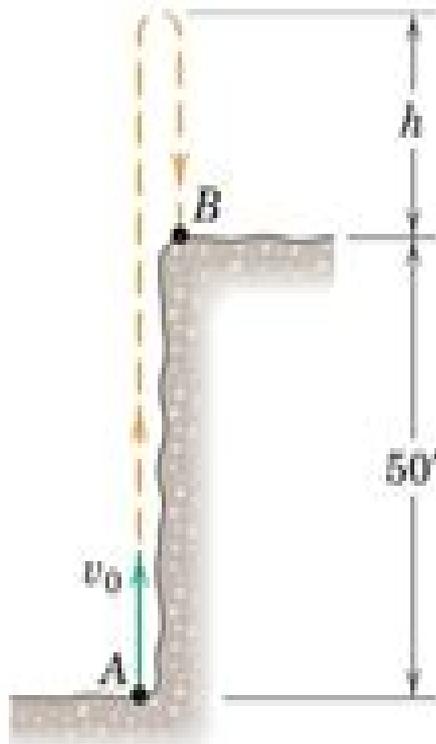


# Rectilinear Motion

A ball is thrown vertically upward with an initial speed of 80 ft/sec from the base  $A$  of a 50-ft cliff. Determine the distance  $h$  by which the ball clears the top of the cliff and the time  $t$  after release for the ball to land at  $B$ . Also, calculate the impact velocity  $v_B$ . Neglect air resistance and the small horizontal motion of the ball.



## Kinematics of Particle

A vertical line represents the path of the ball. Point  $A$  is at the bottom, point  $B$  is at the top of the cliff, and point  $C$  is at the peak of the ball's trajectory. A red arrow points upwards from  $A$  towards  $C$ . A red arrow points downwards from  $C$  towards  $B$ .

$$C \quad v^2 = v_0^2 + 2a(s - s_0)$$
$$v_B^2 = v_A^2 + 2(-g)S_{AB}$$
$$\uparrow \quad v_B^2 = 80^2 - 2 \times 32.2 \times 50$$
$$v_B = \sqrt{3180} = \pm 56.4 \text{ ft/sec}$$
$$A \quad \therefore v_B = \underline{\underline{56.4 \text{ ft/sec} \downarrow}}$$

**Solution**

# Rectilinear Motion Problems And Solutions

**Yicheng Fang**



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