

# 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

$$v^2 = v_0^2 + 2a(s - s_0)$$

$$v_B^2 = v_A^2 + 2(-g)S_{AB}$$

$$v_B^2 = 80^2 - 2 \times 32.2 \times 50$$

$$v_B = \sqrt{3180} = \pm 56.4 \text{ ft/sec}$$

$$\therefore v_B = 56.4 \text{ ft/sec} \downarrow$$

The diagram includes a vertical axis with point C at the top and point B at the bottom. A red arrow points downwards from C to B, indicating the direction of motion.

**Solution**

# Rectilinear Motion Problems And Solutions

**JE Gale**



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