

# 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

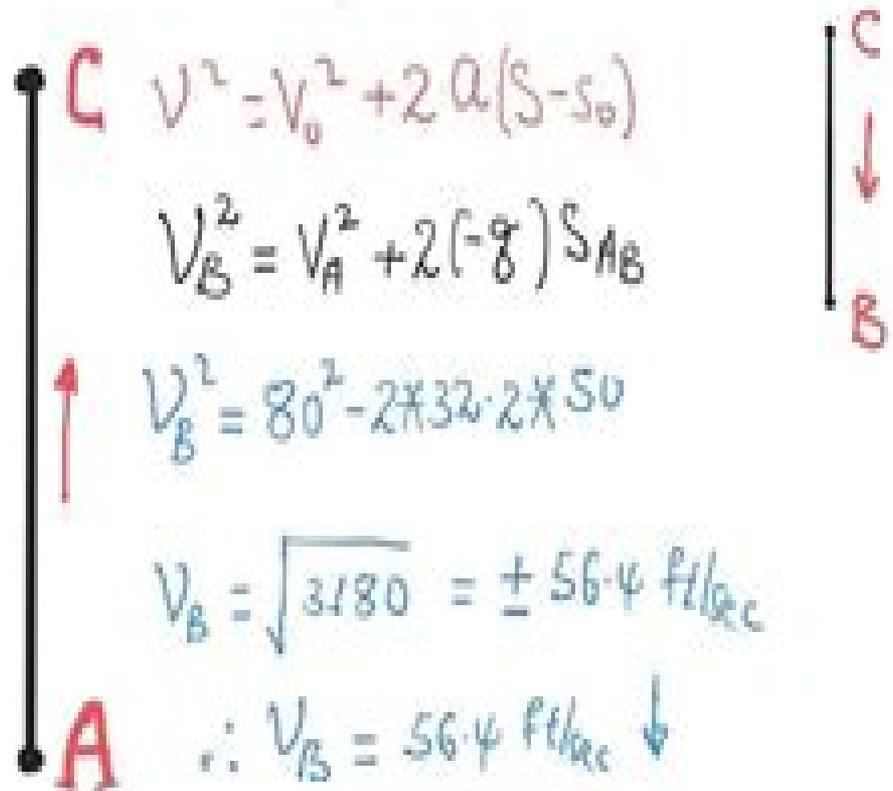
$$C \quad v^2 = v_0^2 + 2a(s - s_0)$$

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

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

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

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



**Solution**

# Rectilinear Motion Problems And Solutions

**Rachel S Tattersall**



## **Rectilinear Motion Problems And Solutions:**

## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Rectilinear Motion Problems And Solutions**

In some sort of inundated with screens and the cacophony of fast interaction, the profound power and mental resonance of verbal art frequently diminish into obscurity, eclipsed by the constant barrage of noise and distractions. However, located within the musical pages of **Rectilinear Motion Problems And Solutions**, a charming perform of literary brilliance that impulses with fresh emotions, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus instructions visitors on an emotional odyssey, softly revealing the latent possible and profound impact embedded within the delicate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we will embark upon an introspective exploration of the book is main styles, dissect its interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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