

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

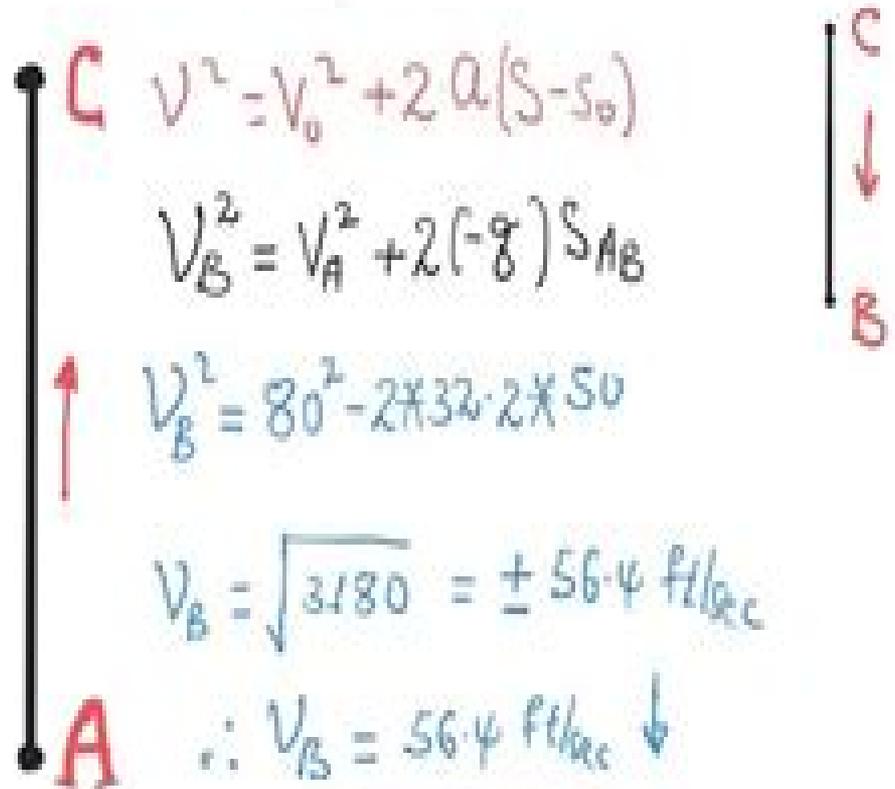
$$C \quad v^2 = v_0^2 + 2a(s - s_0)$$

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

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

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

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



Solution

Kinematics Of Particles Problems And Solutions

Xiaolong Qi



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