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Projectile Motion $y = y_0 + v_{y0}t - \frac{1}{2}gt^2$ $v_y = v_{y0} - gt$ $x = x_0 + v_{x0}t$ $v_x = v_{x0}$ $a_x = 0$ $a_y = -g$

The Motion: $x = v_{x0}t$ $y = v_{y0}t - \frac{1}{2}gt^2$ $v_x = v_{x0}$ $v_y = v_{y0} - gt$ $a_x = 0$ $a_y = -g$

Write Down What You Know: Pick The Equations That Let You Solve The Problem

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Know The Height Of A Projectile (relative To Its Launch Point) In Terms Of Its X Coordinate. Suppose It Is Launched At An Angle Above The Horizontal, With Initial Velocity v_i . For The X-direction: $x = v_i \cos \theta t$ Y-direction: $y = v_i \sin \theta t - \frac{1}{2}gt^2$, 2024.

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