Physics Problem Solving Sheet

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Useful Description

  Picture & Given Information:

0.809 m

18.3 m

$y \quad | \quad x$

$\Delta_y = \qquad | \quad \Delta x =$

$v_{iy} = \qquad \quad v_x =$

$v_{fy} =$

$a = -9.8 \frac{m}{s}$

$\Delta t =$

$$v_f = \frac{\Delta x}{\sqrt{\frac{2\Delta x}{9.8 \frac{m}{s}}}} = \frac{18.3 m}{\sqrt{\frac{2(0.809)}{9.8 \frac{m}{s}}}} = 45.1 \frac{m}{s}$$

  Question:

  Target Quantiy:

Physics Approach

  Physics Concepts and/or Principles:

  y: const. acc.

  x: const vel.

Specific Application of Physics

  Assumptions/ Constraints: Specific Equations:

  •

  zero

Mathematical Procedures

  Employ specific equations to solve for target quantity.

Check units & calculate