

# Download File PDF Simple Projectile Motion Problems And Solutions Examples

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Cool! I'am really happy

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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

A rock is thrown horizontally off a 100m cliff. It lands 95m away. At what speed was it thrown?

**Vertical:**  $a = 9.8 \frac{m}{s^2}$   $y_0 = 0$   
 $y = 100m$   $v_0 = 0$   
 $y = y_0 + v_0 t + \frac{1}{2} a t^2$   
 $\frac{2y}{a} = \frac{1}{2} \frac{a t^2}{a}$   
 $t^2 = \frac{2y}{a}$   $t = \sqrt{\frac{2y}{a}}$

**Horizontal:**  $x = v_0 t + \frac{1}{2} a t^2$   $t^2 = \frac{2y}{a}$   $t = \sqrt{\frac{2y}{a}}$   
 $x = v_0 t$   $v_0 = \frac{x}{t} = \frac{95m}{4.52s} = 21 \frac{m}{s}$   $= \sqrt{\frac{2(100m)}{9.8 \frac{m}{s^2}}} = 4.52s$

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