

Please use the format (given, want, equation, algebra, plug in numbers with units, answer with units in a box).

1. A motorboat is driven across a river at 8.0 km/h at right angles to the current that is flowing at 4.0 km/h. What is the resulting speed of the motorboat (relative to shore)?



$$\vec{R} = \sqrt{(8.0 \text{ km/hr})^2 + (4.0 \text{ km/hr})^2}$$

$$\boxed{\vec{R} = 8.94 \text{ km/hr}}$$

2. A package falls out of a helicopter that is traveling horizontally at 50 m/s. It falls into the water below 4.0 seconds later. Assuming no air resistance, what is the horizontal distance it travels while falling?

Given: $V_x = 50 \text{ m/s}$, $\Delta t = 4.0 \text{ sec}$

want: Δx

Eq: $\Delta x = V_x \Delta t$

#3: $\Delta x = V_x \Delta t$
 $\Delta x = (50 \text{ m/s})(4.0 \text{ sec})$

$\boxed{\Delta x = 200 \text{ meters}}$

3. Luke throws a ball horizontally from the top of a building that is 25.0 meters high. He hopes the ball will reach a swimming pool that is at the bottom of the building, 10.0 meters horizontally from the edge of the building. If the ball is to reach the pool, with what initial speed must Luke throw the ball?

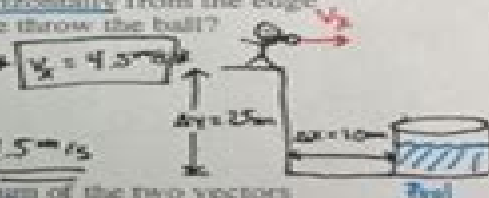
Given: $\Delta y = -25.0 \text{ m}$, $\Delta x = 10 \text{ m}$, $V_{oy} = 0$, $g = -10 \text{ m/s}^2$

want: V_x

Eq: $\Delta x = V_x \Delta t$
 $V_x = \frac{\Delta x}{\Delta t}$

Need: Δt
 $\Delta t = \sqrt{\frac{2 \Delta y}{g}}$

#3: $\Delta t = \sqrt{\frac{2(-25.0 \text{ m})}{-10 \text{ m/s}^2}}$
 $\Delta t = 2.2 \text{ sec}$
 $V_x = \frac{\Delta x}{\Delta t} = \frac{10 \text{ m}}{2.2 \text{ sec}} = 4.5 \text{ m/s}$

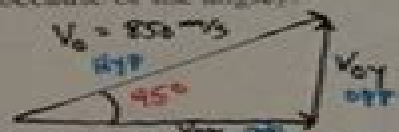


4. Using the parallelogram or tail-to-tip method, draw the vector representing the sum of the two vectors shown below. Label the resultant as "R".



5. The USS Missouri could launch a 2700 pound projectile from Apple Valley High School to Wayzata High School. To reach Maximum range (horizontal distance) the projectile is launched at 45°. If the launch velocity is 850 m/s,

- a. What is the projectile's horizontal and vertical component of velocity (They are the same because of the angle)?



$\sin 45^\circ = \frac{V_{0y}}{850 \text{ m/s}} \rightarrow V_{0y} = 850 \text{ m/s} \sin 45^\circ$

$\cos 45^\circ = \frac{V_{0x}}{850 \text{ m/s}} \rightarrow V_{0x} = 850 \text{ m/s} \cos 45^\circ$

$V_{0y} = 601 \text{ m/s}$

$V_{0x} = 601 \text{ m/s}$

- b. How long, in seconds, would it take to reach the highest point?

Given: $V_{0y} = 601 \text{ m/s}$, $V_y = 0 \text{ m/s}$ ($V_y = 0$ at the highest point), $g = -10 \text{ m/s}^2$

want: Δt

Eq: $V_y = V_{0y} + g \Delta t$

Alg: $\frac{V_y - V_{0y}}{g} = \Delta t$

#3: $\Delta t = \frac{V_y - V_{0y}}{g} = \frac{0 - 601 \text{ m/s}}{-10 \text{ m/s}^2} = 60.1 \text{ sec}$

$\boxed{\Delta t = 60.1 \text{ Sec}}$



Vectors And Projectiles Worksheet Answers

Padhraic Smyth



Vectors And Projectiles Worksheet Answers:

Unveiling the Magic of Words: A Report on "**Vectors And Projectiles Worksheet Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Vectors And Projectiles Worksheet Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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web oct 13 2023 method 1 doing a traditional balance download article 1 write down your given equation for this example you will use $\text{C}_3\text{H}_8 + 2\text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ this reaction occurs when propane C_3H_8 is burned in the presence of oxygen to produce water and carbon dioxide 2 write down the number of atoms per element

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