

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?

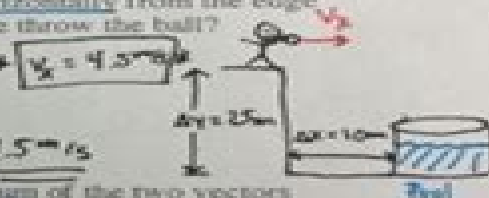
Given: $\Delta y = -25.0 \text{ m}$, $\Delta x = 10 \text{ m}$, $V_{oy} = 0$, $g = -10 \text{ m/s}^2$

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



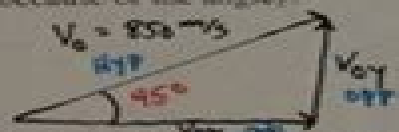
4. Using the parallelogram or tail-to-tip method, draw the vector representing the sum of the two vectors shown below. Label the resultant as "R".



← Doesn't get used in any calculation below

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)?



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

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

$$\boxed{V_{oy} = 601 \text{ m/s}}$$

$$\boxed{V_{ox} = 601 \text{ m/s}}$$

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

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

want: Δt

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

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

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

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



Vectors And Projectiles Worksheet Answers

Wenbin Ji



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