

VERTICAL MOTION OF A PROJECTILE THAT FALLS FROM REST

$$V_{y,f} = a_y \Delta t \quad V_{y,f}^2 = 2a_y \Delta y \quad \Delta y = \frac{1}{2} a_y (\Delta t)^2$$

HORIZONTAL MOTION OF A PROJECTILE

$$V_x = V_{x,i} = \text{constant} \quad \Delta x = V_x \Delta t$$

PROJECTILES LAUNCHED AT AN ANGLE

$$V_x = V_{x,i} = V_i \cos \theta = \text{constant} \quad / \quad \Delta x = (V_i \cos \theta) \Delta t$$
$$V_{y,f} = V_i \sin \theta + a_y \Delta t \quad / \quad V_{y,f}^2 = V_i^2 (\sin \theta)^2 + 2a_y \Delta y \quad / \quad \Delta y = (V_i \sin \theta) \Delta t + \frac{1}{2} a_y (\Delta t)^2$$

SAMPLE PROBLEM A

Finding Resultant Magnitude and Direction

PROBLEM: An archaeologist climbs the Great Pyramid in Giza, Egypt. The pyramid's height is 136m and its width is $2.30 \times 10^2 \text{m}$. What is the magnitude and the displacement of the archaeologist after she has climbed from the bottom of the pyramid to the top?

SOLUTION: GIVEN: $\Delta y = 136 \text{m}$ $\Delta x = \frac{1}{2}(\text{width}) = 115 \text{m}$

1) DEFINE: UNKNOWN: $d = ?$ $\theta = ?$

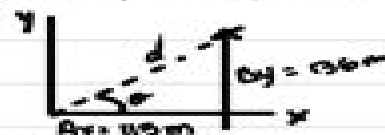
DIAGRAM: CHOOSE the archaeologist's starting position as the origin of the coordinate system.

2) PLAN: CHOOSE AN EQUATION or SITUATION:

The Pythagorean theorem can be used to find the magnitude of the archaeologist's displacement. The direction of the displacement can be found by using the tangent function.

$$d^2 = \Delta x^2 + \Delta y^2$$

$$\tan \theta = \Delta y / \Delta x$$



Holt Physics Test B Subatomic Physics

Kathleen Armour

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