

## 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

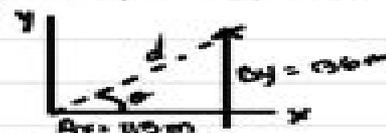
### Finding Resultant Magnitude and Direction

**PROBLEM:** An archaeologist climbs the Great Pyramid in Giza, Egypt. The pyramid's height is 136m and its width is  $2.30 \times 10^2$  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:  $\Delta y = 136$  m     $\Delta x = \frac{1}{2}(\text{width}) = 115$  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.

$$d^2 = \Delta x^2 + \Delta y^2$$
$$\tan \theta = \Delta y / \Delta x$$

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**D Siedentop**



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