## **Projectile Motion**

1<sup>st</sup> Video



A ball rolls off a 0.7 m high table and strikes the floor 0.25 m away from the base of the table. How fast was the ball moving?

 $\begin{array}{l} \underline{\text{Givens}} \\ \Delta x = 0.25 \text{ m} \\ \Delta y = 0.7 \text{ m} \\ g = 9.8 \text{ m/s}^2 \\ v_i = \_\_\_\_ \end{array}$ 



A projectile is launched with a horizontal speed of 100 m/s from the top of a cliff which is 5000 meters tall. How far does the projectile land from the base of the cliff?

 $\frac{\text{Givens}}{\Delta y} = 5000 \text{ m}$ g = 9.8 m/s<sup>2</sup> v<sub>i</sub> = 100 m/s  $\Delta x = \_\_\_$ 

• Continue on to the next video