

219 Cannon on a Cliff

During today's lecture you must

- 1) Diagram each problem**
- 2) Write down all known variables**
- 3) Write down the formula you wish to use**
- 4) Then completely write all of your math problems**
- 5) BOX your answers**

Problem Examples:

- 1) A cannon ball is fired from a 125m cliff and lands 50m from the bottom. How fast was the cannon ball in horizontal direction moving (V_x)?
- 2) How fast was it moving in the Y direction when it hit the ground (V_y)?
- 3) The cannon ball is then fired from a 300m cliff, how far will it land from the base of the cliff?
- 4) The cannon is then fired from a cliff of an unknown height. The cannon ball lands 18m from the base of the cliff. How high is the cliff? How fast was the cannon ball moving in the Y-direction when it hit the ground (V_y)?