## <u>Gravity Practice - Version 2</u>

1.) A cliff diver is on a  $30.0\,m$  high cliff. With what velocity should they leave the cliff, (assume the person jumps out horizontally) in order to miss 8.0 m of rock coming from the cliff's base? 2.) A mountain goat butts you off a  $50.0\,m$  high cliff with a horizontal velocity of  $+3.0\,\frac{m}{s}$ . How far from the base will you strike the ground? 3.) A golfer strikes a ball giving it a velocity of  $35\frac{m}{s}$  at  $35^{\circ}$ . If the course is completely flat how far will the ball travel before bouncing? 4.) Use the information in #3 to find the maximum height to which the ball will rise.

