

1. Draw a graph between the range and the maximum height and find the ratio of $h_{\max}$ to $R_{\max}$. Based on the initial vertical velocity, find the time t it takes for the projectile to reach its maximum height. Based on the short range initial speed and the various launch angle calculate the initial vertical velocity and the initial horizontal velocity for each launch angle. Place the pad at the same height as the end of the projectile launcher. Place the Time-of-Flight Pad at the horizontal distance you calculated for the range. 2. 3. 4. 5. Arrange the data in table 2.6.