1. What is the objective of this experiment? (1 pt.)

2. What is projectile motion? (1 pt.)

3. Find the initial velocity of the ball in the figure below. Remember that velocity is distance divided by time; See step 3 of procedure. Show all work. (2 pts.).

4. For a ball shot with an initial speed of 6.0 m/s at a 30° inclination, find $v_{0x}$ and $v_{0y}$. Show all work. (2 pt.)

5. Solve the following relationship for $t$.
   
   $$0 = 0.847 + 5.71 \sin 13° \ t - \frac{1}{2} \ (9.8) \ t^2$$
   
   Show all work. (2 pts.)

6. Summarize the procedure. (2 pts.)