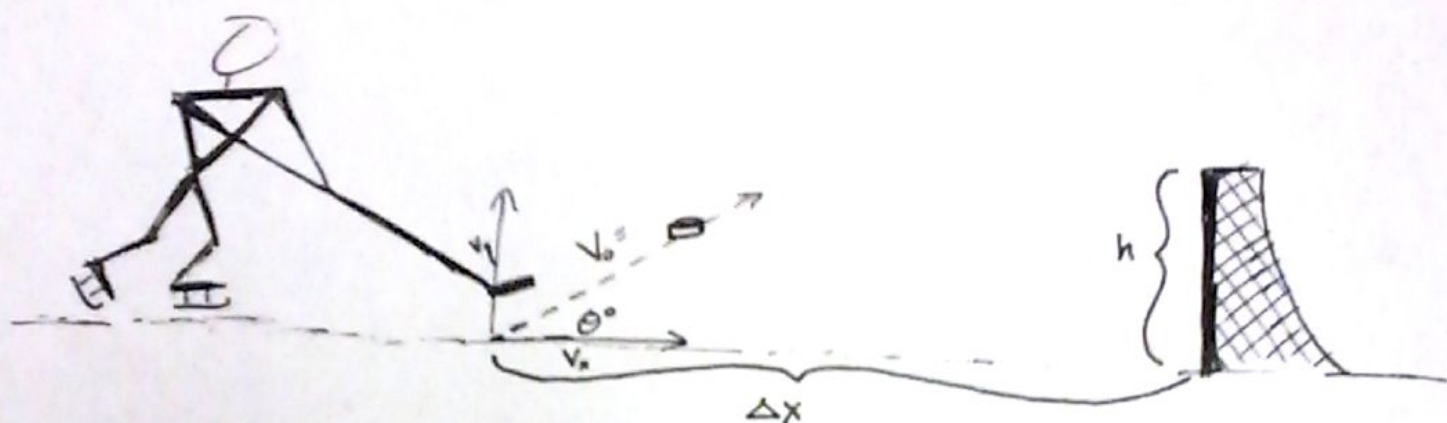


All calculations should be to the hundredths place. Show your work!



Wayne Gretzky (a.k.a. 'the great one') shoots a hockey puck toward a goal at an angle of $\theta = \underline{\hspace{2cm}}$ and an initial speed of $V_0 = \underline{\hspace{2cm}}$. Find V_x and V_y . Use $g = 10 \text{ m/s}^2$.

1.) How much time will the puck spend in the air?

2.) What is the puck's maximum height reached?

3.) How far will the puck travel horizontally?

4.) IF the height of the goal is $h = \underline{\hspace{2cm}}$, what is the nearest Gretzky can be from the goal? Assume the puck passes through the goal during its descent.