



The carron's barrel is level with the ground, and after it is fired, the carron ball follows a parabolic trajectory.

If the carron ball travels for t second before lading in the

If the carron ball travels for t seconds before landing in the grass of a away, what is its initial velocity?

0 = Vy. + 12gt2

 $V_{y_0} = -V_2 q^{\frac{1}{2}}$   $V = \int V_{y_0}^{1} + V_{x_0}^{2} \qquad \Theta = + \omega^{\frac{1}{2}} \left( \frac{V_{y_0}}{V_{x_0}} \right)$ 

Vx. = 2/+