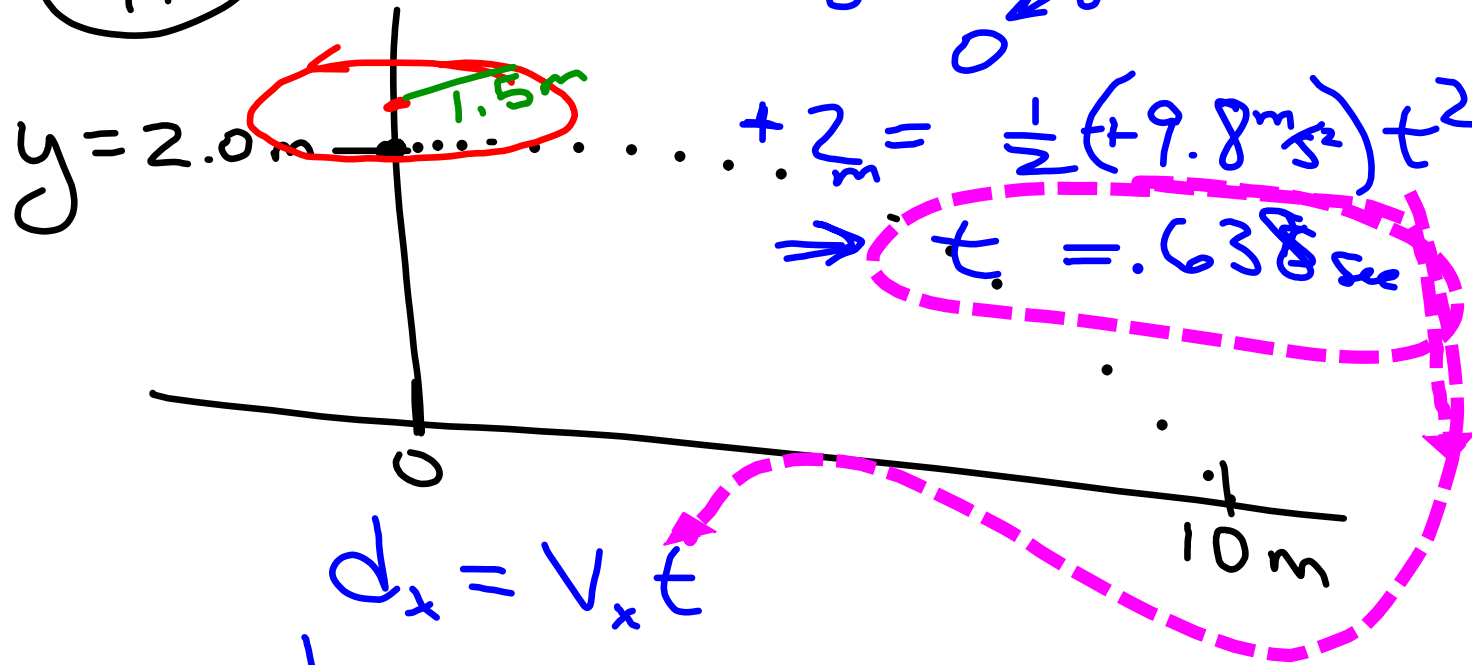


(71)



$$y = y_0 + v_{y0}t + \frac{1}{2}at^2$$

$$y = 2.0\text{ m} + 0 + \frac{1}{2}(+9.8\text{ m/s}^2)t^2$$
$$\Rightarrow t = .638\text{ sec}$$

$$d_x = v_x t$$

$$\frac{10\text{ m}}{.638\text{ s}} = v_x$$

$$d_c = \frac{v^2}{r} = \frac{1}{1.5\text{ m}}$$