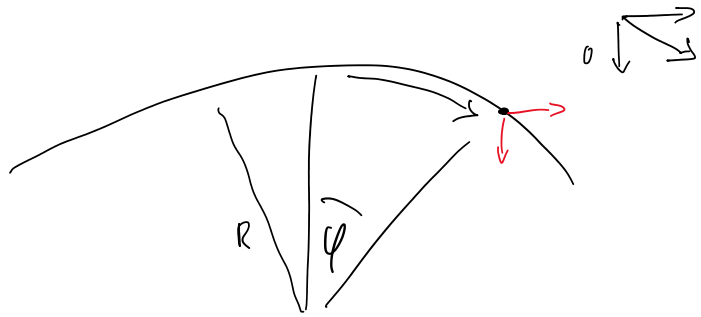


$R = 100\ m$

$v_0 = 95 / 3{,}6\ \frac{m}{s}$

$v_x = v_0$

$F_H = F_{ZP}$

$\cancel{mg} = \frac{\cancel{m} v^2}{r}$

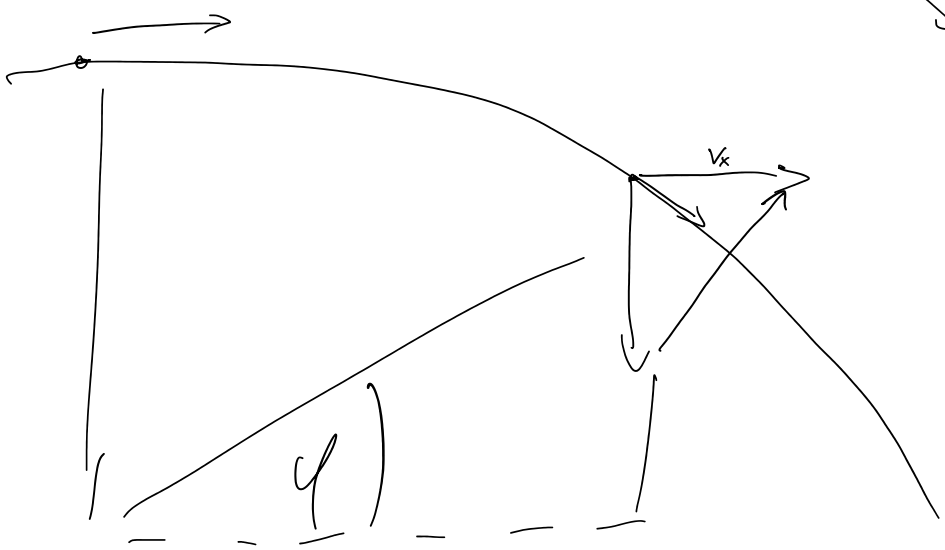
$v_B = \sqrt{gr}$

$v_B^2 = v_x^2 + v_y^2 \quad | - v_0^2 \quad \sqrt{}$

$\sqrt{gr - v_0^2} = v_y$

$v_y = 2{,}22\ \frac{m}{s}$

$\tan^{-1}\left(\frac{v_y}{v_x}\right) = \varphi$



$\hookrightarrow \varphi = 85{,}79°$

$\sin(\varphi) = \frac{G}{H} \quad | \cdot H$

$R \sin\varphi = G$

$G = 99{,}65\ m \rightarrow 100 - G = \underline{\underline{0{,}35\ m}}$

$\hookrightarrow = h_B$