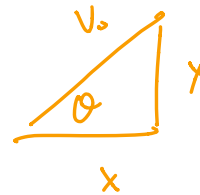


Var: $\theta, V_0, V_f, \theta_f, y_0, y_f$

$x_0, x_f, y_{\max}, t, t_{\max}$

$$y_{\max} = V_0 + at$$

need V_0, θ, y_0



$$V_0 \sin \theta + at = 0$$

$$t = \frac{-V_0 \sin \theta}{a}$$

$$y = y_0 + v_0 t + \frac{1}{2} a t^2$$

$$V_f = \frac{1}{2} m v_i^2 + mgh = \frac{1}{2} m v_f^2$$

$$\sqrt{v_0^2 + 2gh} = v_f$$

Display

Welcome to projectile calculator.

1. Calculate y max height.

2. Final velocity.