



$$V_{oy} = \text{Sen } 70 \cdot 90 \frac{m}{s}$$

$$V_{ox} = \text{Cos } 70 \cdot 90 \frac{m}{s}$$

$$V_{oy} = 84,57 \frac{m}{s}$$

$$V_{ox} = 30,78 \frac{m}{s}$$

$$t_s = \frac{V_{oy}}{g} = 8,62s$$

$$t_v = 2(t_s) = 17,24$$

$$x_{max} = V_{ox} \cdot t_v = 30,78 \frac{m}{s} \cdot 17,24s = 530,64m$$

$$y_{max} = V_{oy} \cdot t_s - \frac{g \cdot t_s^2}{2} = 84,57 \frac{m}{s} \cdot 8,62s - \frac{9,8 \frac{m}{s^2} \cdot 74,3s^2}{2}$$

$$y_{max} = 729m - 364,07m = 364,9m$$