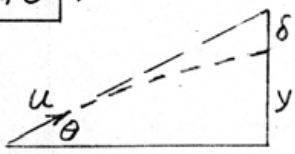
2/70 $x = 1000\ m \quad u = 600\ m/s \quad \theta = 20°$



From Sample Problem 2/6

$$y = x\tan\theta - \frac{gx^2}{2u^2}\sec^2\theta$$

But $y + \delta = x\tan\theta$, so $\delta = \dfrac{9.81(1000)^2}{2(600)^2}\dfrac{1}{(0.9397)^2}$

$$\delta = 15.43\ m$$