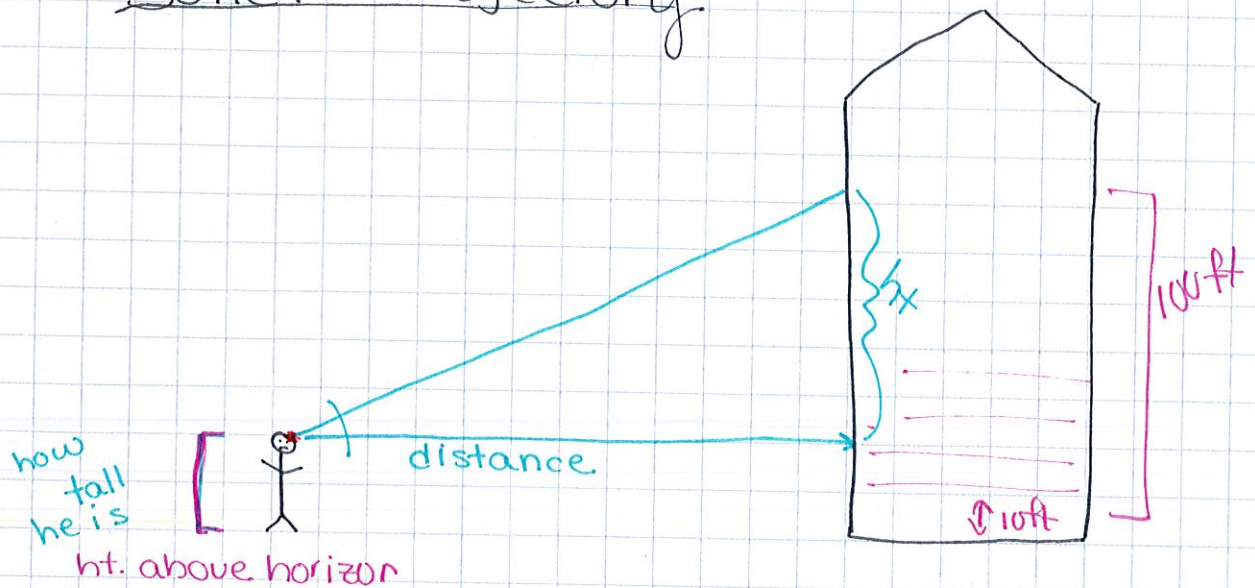


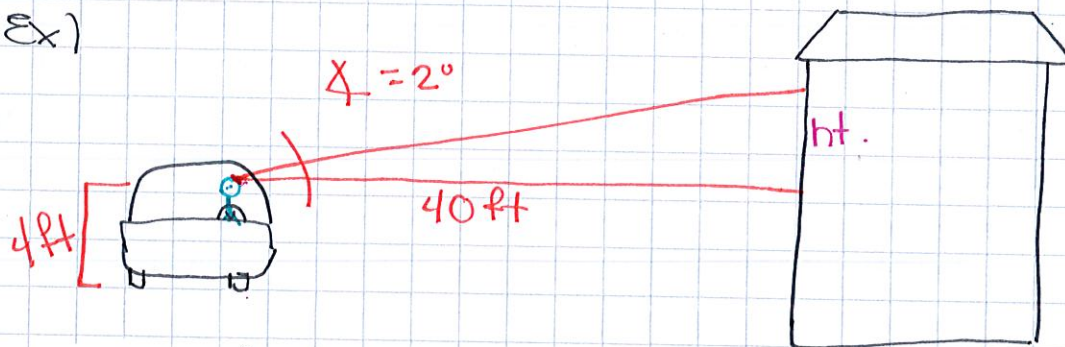
# Bullet Trajectory



$$ht. = \text{distance} \cdot \tan \Delta$$

$$\text{total ht} = ht + \text{ht. above horizon}$$

(ex)



• solve for the height the <sup>total</sup> bullet came from.

$$ht = 40 \text{ ft.} \cdot \tan 2^\circ = 1.4 \text{ ft}$$

$$\text{total ht} = 1.4 \text{ ft} + 4 \text{ ft} = \boxed{5.4 \text{ ft}}$$