(3) (10 points) The airplane shown is in level flight at an altitude of 0.50 km and a speed of 150 km/h. At what distance d should it release a heavy bomb to hit the target X? Take $g = 10 \text{m/s}^2$ and ignore air resistance. [X=v_{0x}t, Y=v_{0y}t+1/2 (gt²)]

