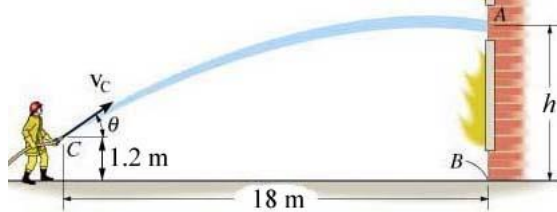**H3-1.** Determine the maximum height h on the wall to which the firefighter can project water from the hose, if the speed of the water at the nozzle is $v_C = 20$ m/s.

H3-2. The ball is thrown from the tower with a velocity of 35 ft/s as shown. Determine the x and y coordinates to where the ball strikes the slope. Also, determine the speed at which the ball hits the slope.