



Is given:  $h$ ,  $H_0$ ,  $d$  (diameter of the tube),  $D$  (diameter of the cylinder),  $l$  (length of the tube),  $L$  (length of the water jet),  $\rho$ .

- What is the initial velocity of the water jet exiting the tube based on time? (formula)
- What is the length of the water jet exiting the tube based on time? (formula)

Level: 10<sup>th</sup> Grade

Problem: 5<sup>th</sup>