

Bernoulli ACT

- Through which hole will the water come out fastest?

$$P_1 + \rho g y_1 + \frac{1}{2} \rho v_1^2 = P_2 + \rho g y_2 + \frac{1}{2} \rho v_2^2$$

Note: All three holes have same pressure
 $P = 1$ Atmosphere

$$\rho g y_1 + \frac{1}{2} \rho v_1^2 = \rho g y_2 + \frac{1}{2} \rho v_2^2$$

$$g y_1 + \frac{1}{2} v_1^2 = g y_2 + \frac{1}{2} v_2^2$$

Smaller y gives larger v . Hole C is fastest

