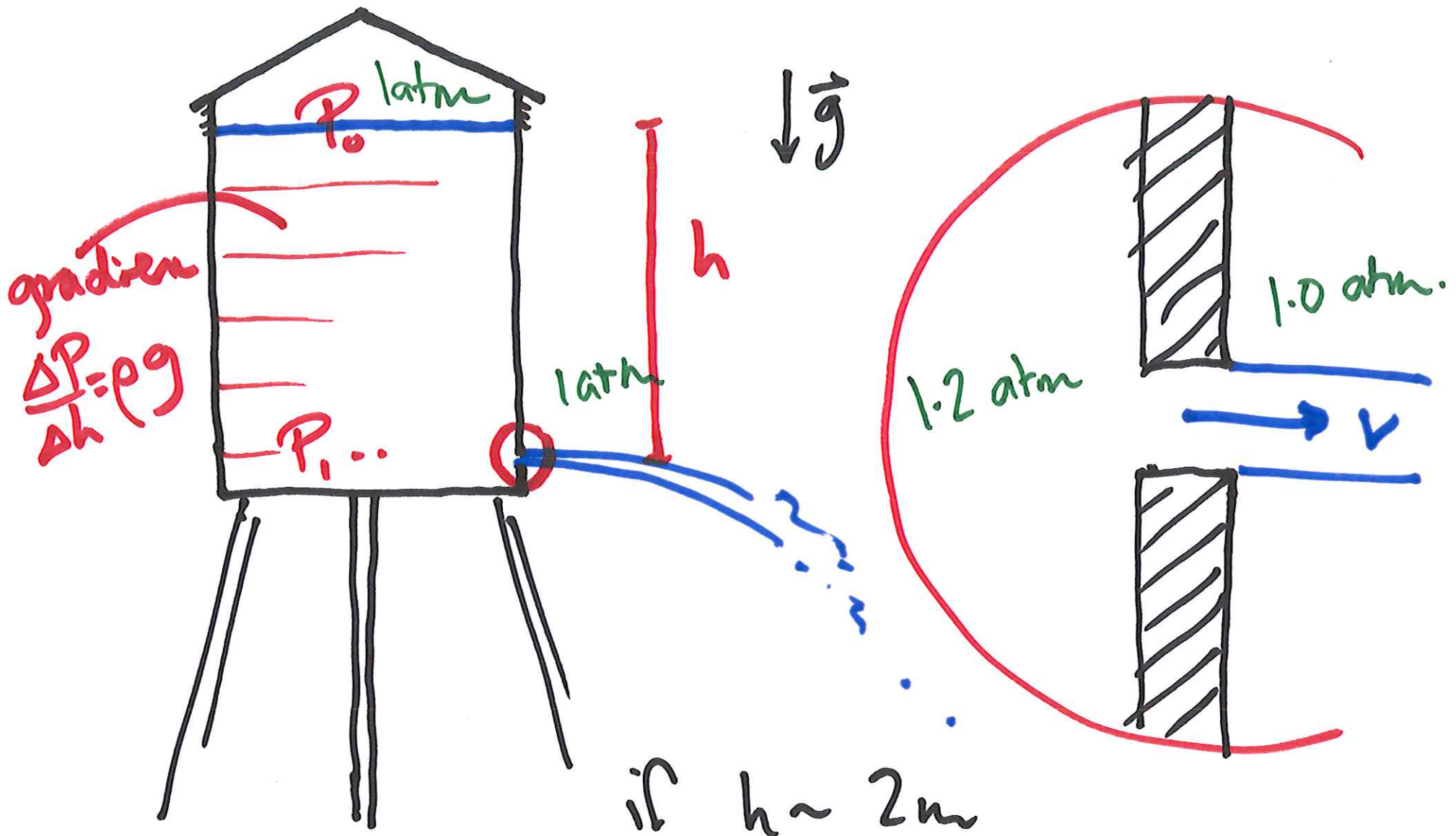


# NYU Physics I

- Vote
- Qs
- Water tank.
- Exam 4.

2018-11-06.

- moment of inertia
- torque
- rotational energy
- rotational  $\tau = I\alpha$ .



$$P_1 - P_0 = \rho g h = 1000 \frac{\text{kg}}{\text{m}^3} 10 \frac{\text{m}}{\text{s}^2} 2 \text{ m} \approx 20,000 \text{ Pa} \approx 0.2 \text{ atm}$$

$$\frac{2}{\pi} = 0.64$$

$$\sqrt{0.64} = \frac{8}{10}$$

$$\left(\frac{2}{\pi}\right)^2 = 0.4$$

$$\sqrt{0.4} = 0.64$$

$$\frac{80}{\pi} = 7.2$$

7.28...

$$\frac{10,000}{\pi} = 900$$

969