

## Problem Set #2 (with solution)

Answer following questions in words or equations. (Note on the solutions: some of the answers given here are *examples* of correct solutions, not the only correct solution. Judgment on the score is up to the graders.)

The homework is due by the end of the class on 10/15 (Sat). It must include detailed explanation on every step to reach the final answer of each problem, unless explicitly requested not to. Without special consideration, all students should write answers with hand.

1. Answer following questions with words (mostly explained in the class) in either English or Korean

(a) What are the forces considered while deriving the Bernoulli equation?

Ans) The gravity force, pressure force and the acceleration

(b) List the conditions of a flow where the Bernoulli equation is applicable

Ans) Following conditions

- i. Steady flow
- ii. Following a streamline
- iii. Incompressible flow
- iv. No work (and/or no viscous effect)

(c) What is the main use of the manometer, Pitot tube and Venturi meter?

Ans) Manometer measures the pressure, Pitot tube measures the velocity, Venturi meter measures the flow rate.

(d) In Pitot tube, what are the names and definitions of two values measured at the sensors?

Ans) The static pressure ( $=p$ ) and the stagnation pressure ( $=p + \rho V^2/2$ )

2. Solve the following problems at the end of Chapter 3 : 3.14 (use Euler-n eq.), 3.22, 3.28, 3.46, 3.48, 3.53

\*Note : For 3.46, assume only two upper holes (in other words, ignore the lowest hole) and use the following integration

$$\int \frac{1}{\sqrt{h} + \sqrt{h+D}} dh = \frac{2}{3} \left\{ \sqrt{h+D} \left( 1 + \frac{h}{D} \right) - \frac{h\sqrt{h}}{D} \right\}.$$

where  $h$  is the height of the pop surface and  $D$  is the distance between holes. It is my mistake that I did not realize that the integration in the original problem is so complex. I feel sorry for those who spent a lot of time on it and would like to thank Jihye Itwang for her efforts and time.

Ans) Refer to the separate solution pages.

# Homework Problem Set 2 Solutions Illinois State University

**M Mosston**



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