


Physics 112

Friday, March 29/19

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1. Return/Submit: FAs
 2. SA: U1- S3 -> Mathematical Analysis
 3. Worksheet - Page 137: Practice Problems (PP) #1-4
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4. Normal Force
 5. Force of Friction
 6. Handout - Coefficients of Friction
 7. Free Body Diagrams

Physics 122

Friday, March 29/19

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1. Return: SA - U1: S3&4 -> ~~Monday.~~

2. Questions?

Worksheet: Charge and Coulomb's Law

Textbook -> Page 638, #1-5

3. Coulomb's Law - Three Charges in a Line

4. Coulomb's Law - Three Charges with Angles

	UNIT 3	
	Coulomb's Law	
	Worksheet: Charge and Coulomb's Law (Two Charges)	
	Textbook: C14 -Page 638, #4-5	
	Textbook: Page 640, #6, 7 and 8 (Two or More Charges)	

5. Worksheet -Textbook: Page 640, #6, 7 and 8
Coulomb's Law - Two or More Charges

Science 122

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1. Questions?

Worksheet - Equation of Continuity and Bernoulli's Principle
(Problems #50-55, #56-59)

Worksheet: Problems - Continuity and Bernoulli's Equation

Worksheet: Fluids - Continuity and Bernoulli: Extra Practice #2

2. SA - Hydrodynamics

- Date: Thursday, April 4/19

3. Chernobyl Heart - Monday

<https://www.youtube.com/watch?v=jFwGEsJg2MI>

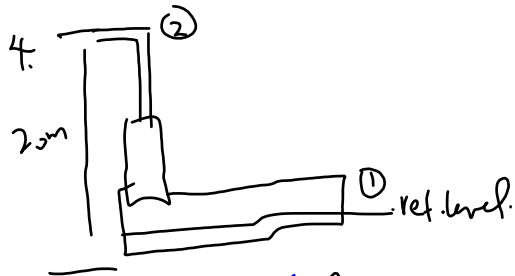


4. Decay Series

5. Half-Life

6. Activity and Decay Constants

Worksheet - Continuity and Bernoulli #2



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

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

$$A_1 v_1 = A_2 v_2$$

$$v_2 = \frac{A_1 v_1}{v_2} \quad] \text{ 3SD. }$$

#5: $P_2 - P_1 = 17 \times 10^3 \text{ Pa} = \Delta P$

$$A_1 v_1 = A_2 v_2 \quad \text{--- } P_2 - P_1 \text{ ---}$$

$$v_1 = \frac{A_2 v_2}{A_1}$$

$$v_1 = \frac{\pi r_2^2 v_2}{\pi r_1^2}$$

$$v_1 = 4v_2 \quad] \quad v_2$$

$$v_2 = \sqrt{\frac{2 \Delta P}{15 \rho}}$$

$$v_2 = \sqrt{\frac{2(17 \times 10^3)}{15 \cdot 1000}}$$

$$v_2 = \underline{\hspace{2cm}}$$

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

$$v_2 = \sqrt{2 g y_1} \quad]$$

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Friday, March 29/19

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Pep Rally - 2:00 to 3:15

Coming up on Monday:

1. Counting Atoms
2. Worksheet: Counting Atoms in Compounds
3. Chemical Reactions
4. Word Equations
5. Chemical Equations
6. Law of Conservation of Mass
7. Examples - Balancing Chemical Equations