

195 - Test 3		A	B	C
1	CHAP 6-13 6 points <i>Using words, diagrams and equations</i>	What are fictitious forces? Why do they occur? Use figures 6.11 and 6.12.	Using Kepler's Law and quantities associated with Venus calculate the mass of the Sun. Now, calculate the Mass of the Milky Way Galaxy. How many stars are in our Galaxy?	Show how the Physicists helped the Geologists understand the true nature of the density of the earth. Show the calculations. What did we learn about the earth from Newton's Univ. Law of Gravitation.
2	CHAP 13-7 6 points <i>Using words, diagrams and equations</i>	Explain Gravitational Potential Energy using figures 13.11, 13.12 and 13.13. Derive equation 13.14.	Using figure 7.10 and equation 7.9 derive the Work done by a spring.	Explain the energy approach to solving problems. Pages 182-3
3	CHAP 6 4 points	Quick Quiz Question 3	Quick Quiz Question 6	Quick Quiz Question 4
4	CHAP 13 4 points	Quick Quiz Question 5	Quick Quiz Question 6	Quick Quiz Question 7
5	CHAP 7 4 points	Quick Quiz Question 4	Quick Quiz Question 2	Quick Quiz Question 5
6	CHAP 6 4 points	P #15 Show your work	P #22 Show your work	P #19a Show your work
7	CHAP 13 4 points	P #27 Show your work	P #10 Show your work	P #19 Show your work
8	CHAP 7 4 points	P #20 Show your work	P #18 Show your work	P #15 Show your work
9	CHAP 6/13 24 points DRS	Ch 13 P #47 <i>This solution is on the web</i>	Ch 13 P #60 <i>This solution is on the web</i>	Ch 6 P #65

Test Date – Tuesday 3/11/08 at 12:30 pm

You will **randomly** receive one of three versions of the test above. You cannot have any notes. There are two questions (1 and 2) that require you to write a complete and concise explanation along with an appropriate diagram and mathematical logic (equations). Practice these questions. Write your answer out. Do not use paragraphs. Use bullets or steps. Pretend that you are to provide an explanation to the class.

There are 3 multiple-choice questions which require a correct and **brief explanation** as to why you chose your answer. There are also 3 basic problems that require you to show some of your work. These are not easy or simple problems. Basic means that you are capable and prepared to solve these problems.

Problem 9 requires that you show a complete diagram, clear reasoning and a correct solution. Practice drawing your diagram. Diagrams are important. They demonstrate your knowledge and understanding of the problem. They are not for show. I will start this test at 12:30 pm. You will have 75 minutes. **NO programmable calculators**. No books or notes.