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$dx/dt = -R \sin \left( \frac{d}{dt} \right)$  The second derivative of  $x$  with respect to time  $t$  is:  $d^2x/dt^2 = -R \cos \left( \frac{d}{dt} \right)^2 - R \sin \left( \frac{d^2}{dt^2} \right)$  In both of the above equations the chain rule of Calculus is used and by assumption  $\sin$  is a function of time. Therefore,  $\sin$  can be differentiated with respect to time.

Physics Questions - Real World Physics Problems

Name and describe the two branches of fluid mechanics used in physics. View Answer A point charge  $q_1 = 3.40 \text{ nC}$  is located on the  $x$ -axis at  $x = 2.30 \text{ m}$ , and a second point charge  $q_2 = -6.00 \text{ nC}$  is...

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Answer:  $v_i = 5.03 \text{ m/s}$  and hang time =  $1.03 \text{ s}$  (except for in sports commericals) See solution below. A bullet leaves a rifle with a muzzle velocity of  $521 \text{ m/s}$ . While accelerating through the barrel of the rifle, the bullet moves a distance of  $0.840 \text{ m}$ .

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## Kinematic Equations: Sample Problems and Solutions

Answers: Vacuum; Snell's Law; Thermodynamics (Thomas) Young (as in Young's modulus) The water level falls (work out using Archimedes' principle) Surface tension; Density; Armature; Gravity; Siemens; Less (gravity is less at the equator due to the centrifugal force of the spinning earth) Lord Kelvin; Avogadro constant; A prism; Neptune; Ohms law; Physics Questions II

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Answer: Her tendency to maintain a constant state of motion. Inertial mass, which is usually just called

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mass, is a measure of any object's tendency to keep on moving as it is. If it is at rest, it will stay at rest unless acted on by an unbalanced outside force; if it is moving, it will keep moving in a straight line at a constant speed unless acted on by an unbalanced outside force.

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Answer & Explanation Answer: A) 25 W Explanation: Resistances of both the bulbs are .  $R_1 = V^2/P_1 = 220^2/25$  .  $R_2 = V^2/P_2 = 220^2/100$  . Hence  $R_1 > R_2$  . When connected in series, the voltages divide in them in the ratio of their resistances. The voltage of 440 V divides in such a way that voltage across 25 w bulb will be more than 220 V.

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FLUID MECHANICS Multiple Choice Questions :-1. Pascal-second is the unit of a) pressure b) kinematic viscosity c) dynamic viscosity d) surface tension Ans: c. 2. An ideal fluid is a) one which obeys Newton ' s law of viscosity b) frictionless and incompressible c) very viscous d) frictionless and compressible Ans: b. 3. The unit of kinematic viscosity is

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