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dx/dt = - Rsinθ (d θ /d t) The second derivative of x with respect to time t is: d2x/dt2 = - Rcosθ (d θ /d t) 2 - Rsinθ (d 2θ /d t2) In both of the above equations the chain rule of Calculus is used and by assumption θ is a function of time. Therefore, θ 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 nC is located on the x-axis at x = 2.30 m , and a second point charge q_2 = -6.00 nC is...

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

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 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 . R1=V^2/P1 = 220^2/25 . R2 = V^2/P2 = 220^2/100 . Hence R 1 g t ; R 2 . When connected in series, the voltages divide in them in the ratio of their resistances. The voltage of 440 V devides 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