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PHYSICS 111 HOMEWORK

SOLUTION #8 March 24, 2013.

0.1 A particle of mass m moves with momentum of magnitude p . • a) Show that the kinetic energy of the particle is: $K = \frac{p^2}{2m}$ (Do this on paper. Your instructor may ask you to turn in this work.) • b) Express the magnitude of the

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particle's momentum in terms of its kinetic energy and mass. a) By definition, the momentum of a particle moving ...

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PHYSICS 111 HOMEWORK
SOLUTION #10 April 8, 2013.
0.1 Find the net torque on
the wheel in the figure below
about the axle through O,
taking $a = 16.0$ cm and $b =$
 30.0 cm. A torque that's
produced by a force can be
calculated from the
expression: $\tau = Fr \sin \theta$. All
the forces acting on the
wheel are perpendicular to
the

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The speed is inversely
proportional to the index of
refraction.

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PHYSICS 111 HOMEWORK

SOLUTION #10 April 10, 2013.

0.1 Given $\vec{M} = 4\vec{i} + \vec{j} - 3\vec{k}$ and $\vec{N} = \vec{i} - 2\vec{j} + 5\vec{k}$, calculate the vector product $\vec{M} \times \vec{N}$. By simply following the rules of the cross product: $\vec{i} \times \vec{i} = \vec{j} \times \vec{j} = \vec{k} \times \vec{k} = 0$, $\vec{i} \times \vec{j} = \vec{k}$, $\vec{j} \times \vec{i} = -\vec{k}$, $\vec{j} \times \vec{k} = \vec{i}$, $\vec{k} \times \vec{j} = -\vec{i}$, $\vec{k} \times \vec{i} = \vec{j}$, $\vec{i} \times \vec{k} = -\vec{j}$. $\vec{M} \times \vec{N} = (4\vec{i} + \vec{j} - 3\vec{k}) \times (\vec{i} - 2\vec{j} + 5\vec{k}) = 8\vec{k} + 20\vec{j} - \vec{k} - 5\vec{i} - 3\vec{j} - 6\vec{i} = 11\vec{i} + 17\vec{j} - 9\vec{k}$

0.2 Calculate the net torque (magnitude and direction) on the ...

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PHYSICS 111 HOMEWORK SOLUTION #10

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Homework #1 1. Below are several statements that reflect the goals of this assignment, i.e., what you should get out of completing the assignment. In particular, one of the goals is to give you practice in adding and subtracting vectors. The practice in this homework is one of the steps you need to take so that working with vectors becomes second nature to you. We want ...

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Physics 111 Homework
Solutions Week #2 - Tuesday
Friday, January 9, 2015
Chapter 14 Questions 14.2

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Since objects are charged each will exert equal and opposite forces on each other. If the test charge is massive then its acceleration will be small and both charges will move around in the field of the other. If on the other hand the test charge is small, its acceleration is very large and the ...

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that the kinetic

HW8_sol - PHYSICS 111 HOMEWORK SOLUTION#8 0.1 A particle ...

Physics 111 Homework
Solutions Week #3 -
Wednesday Friday, January
17, 2014 Chapter 15
Questions - None Multiple-
Choice 15.8 D 15.9 B
Problems 15.1 The
equilateral triangle is
given as shown. The
potential energy is given by
the equation $PE_{total} = 3 \times$
 $PE_{1,2}$ Substituting the
values given, we find the $(9$
 $\times 10^{-8} = 3 \times 9 \text{ Nm}^2 \text{ C}^2)$ $(3 \times 10^{-8} \text{ C})$
 $0.05\text{m} \cdot 6 \cdot 2 = 4.86\text{J}$. $3\mu\text{C} \in$
 $3\mu\text{C}$ 15.4 $\in 3\mu\text{C}$ The ...

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Physics 111 Homework Solutions Week #3 - Wednesday ...

PHYS 111 HOMEWORK

#4--Solutions Write on only one side of each sheet. To receive full credit for questions involving numerical calculations, use proper units throughout the calculations. Complete solutions and explanations are required for full credit. We will neglect friction in all questions in this assignment. 1. An object is dropped from rest from a cliff of height H . It is observed that ...

**PHYS 111 HOMEWORK
#4--Solutions**

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the constantly changing
research frontiers.

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This book on the teaching and learning of physics is intended for college-level instructors, but high school instructors might also find

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it is very useful. Some ideas found in this book might be a small 'tweak' to existing practices whereas others require more substantial revisions to instruction. The discussions of student learning herein are based on research evidence accumulated over decades from various fields, including cognitive psychology, educational psychology, the learning sciences, and discipline-based education research including physics education research. Likewise, the teaching suggestions are also based on research findings. As for any other scientific endeavor, physics

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