Physics 231 - 24-Sep-99

- Announcements
- Work
- Kinetic Energy
- Examples
- quiz

Announcements

- First Midterm Monday, October 4, 8:00 9:00 p.m. in E100 Vet. Med. Center
 - Bring your Student ID
 - Bring a calculator
 - No books or notebooks allowed but, one 8 1/2" x 11" "help-sheet" is permitted

Vork

$$W = F \cdot \Delta L = F \quad L \cos C$$

Vork Examples

Work overcoming gravity

Work against friction

Varying Force and Work

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Cinetic Energy

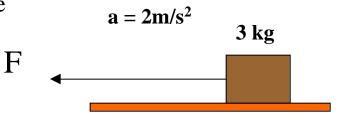
 $KE = 1/2 \text{ mv}^2$

Vork-Energy Theorem

xamples

)1 - Answer = c)2 - Problem A - Last name A-K

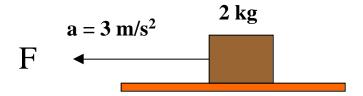
A mass of 3 kg is accelerated at 2 m/s² by a force F for a time of 5 seconds. How much work is done by this force in that time?



- a. 6 J
- b. 15 J
- c. 30 J
- d. 60 J
- e. 150 J

01 - Answer = c 02 - Problem B - Last Na me L-Z

A mass of 2 kg is accelerated at 3 m/s² by a force F for a time of 4 seconds. How much work is done by the force in hat time?



- a. 6 J
- b. 24 J
- c. 96 J
- d. 144 J
- e. 256 J

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