

Friday, May 10/13
Physics 112/111

Review: Tentative Exam Schedule

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1. Check: PP Chapter 6
 2. Quiz C6 - Monday
 3. Investigation 6-A Force and Spring Extension (Page 255)
Due - Monday, May 13/13
 4. Chapter 6 - Review (in Monday's packet)
 5. Page 274
Knowledge/Understanding
#2, 4, 5
Problems for Understanding
#17, 18, 20, 21, 23, 27, 30, 31
 6. Power and Efficiency (Starting Page 262) → Not on Quiz
 7. Textbook: Page 266 #41-43 } HW for Tuesday
Page 270 #44-48 } P2
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Chapter 6 - Review
(From Monday's Packet)

Problems

1. a) $8.3 \times 10^3 \text{ J}$
b) The force of gravity does positive work when the meteorite is lowered because the direction of the force doing the work and the displacement of the meteorite have the same direction.

2. Omit

3. $W = 0 \text{ J}$

Although a force is applied to the leg of the elephant, the elephant does not move as a result of that force ($d = 0 \text{ m}$).

4. 6.4 kg

5. Omit

6. $4.2 \times 10^6 \text{ m/s}$

Multiple Choice

1. C

2. A

3. D

4. B

5. A

6. D

Fill in the Blanks

1. gravitational or elastic
2. sum
3. absolute
4. perpendicular
5. Omit
6. negative
7. reference line or zero line or reference level
8. horizontally
9. transfer

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Knowledge/Understanding

- #2. A man exerts an upward force on a grocery bag as he walks down the sidewalk (F is perpendicular to d).
- #4. One type of energy is kinetic energy. An object has kinetic energy when it is in motion. Potential energy is stored energy due to an object's position or condition.
- #5. a) The baseball's kinetic energy would quadruple if its speed doubles.
b) The baseball's energy would double if its speed doubles.

Problems for Understanding

#17, 18, 20, 21, 23, 27, 30, 31

Answers are in the back the text book.