Tuesday, December 10/13
Physics 112/111

1. Investigation 6A - Force and Spring Extension (Page 255)
   4 Days Late (Dec. 10)

2. Textbook: Page 266 #41-43
   Textbook: Page 270 #44-48

3. Textbook: Page 287, PP #1-7

4. Textbook: Page 329, PFU #21-23, 25
   Textbook: Page 332, PFU #38, 39, 54

5. In-Class Assignment: Tomorrow

6. Test - Unit 3: Monday, Dec. 16

7. Unit 4 - Started Today

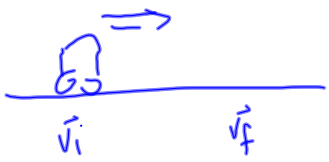
In-Class C6-C7

1. Work Energy Theorems.

$W = \Delta E_K$ | $W = \Delta E_g$

$W = E_{Kf} - E_{Ki}$ | $W = E_{gf} - E_{gi}$

$Fd = \frac{1}{2}mv_f^2 - \frac{1}{2}mv_i^2$ | $Fd = mgh_f - mgh_i$



* ref. level.

2. Power ← work. lifted/lowered

$$P = \frac{W}{t} = \frac{Fd}{t} = \frac{mgd}{t} = Fv$$

$$P = \frac{\Delta E_g}{t} = \frac{E_{gf} - E_{gi}}{t} = \frac{E_{Kf} - E_{Ki}}{t}$$

3. Efficiency

$$\text{Efficiency} = \frac{W_o}{W_i} \times 100\%$$

$$\text{Efficiency} = \frac{E_o}{E_i} \times 100\%$$

4. Energy Conservation.

$$E_{Ki} + E_{gi} + E_{ei} = E_{Kf} + E_{gf} + E_{ef}$$

? ? ? ? ? ?

* ref. level.

✓ ... MC + Prob.

Attachments

Student ID re-takes 2013.doc