

Spring '16

Spring '18

Name Key
Hour _____

Honors Advanced Physics
Semester 2 Final
150 Points
Ch. 6, 7, 8, 11, 13

Please indicate TWO problems to skip. These two problems must be clearly indicated (write skip next to the question), and will not count for or against your grade.

- Ch. 8 1. A centrifuge accelerates uniformly from rest to 21,500 rpm in 300 s. Through how many revolutions did it turn in this time?

$$\omega_i = 0$$

$$\omega_f = 21500 \times 10^5 = 2251.5$$

$$t = 300$$

$$2251.5 = 0 + \alpha (300)$$

$$\alpha = 7.505$$

$$\Delta\theta = 0 + \frac{1}{2} (7.525) (300^2)$$

$$\Delta\theta = 338625 \text{ rad} \left| \frac{1 \text{ rev}}{2\pi} \right|$$

$$53893.8 \text{ rev}$$

- Ch. 13 2. An iron railroad tie with a length of 3.14 m at 20°C is heated to 98°C. What is the final length of the tie? ($\alpha = 12 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$)

$$\Delta L = (12 \times 10^{-6}) (3.14) (98 - 20)$$

$$\Delta L = .0029 \text{ m} \quad 3.14 + .0029 = 3.1429 \text{ m}$$

- Ch. 11 3. Find the frequency of a simple pendulum located on Earth that has a length of 3.2 m.

$$f = \frac{1}{2\pi} \sqrt{\frac{g}{L}}$$

$$f = \frac{1}{2\pi} \sqrt{\frac{9.8}{3.2}} = .279 \text{ Hz}$$

Grade 10 2012 Physics Final Exam

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