

PES 1000 –Physics in Everyday Life – At-Home Problem Set

Chapters 2 - 6: Motion and Energy (Griffith 'The Physics of Everyday Life' 8th.ed.)

Any or all of the following questions and exercises may be attempted. Questions (Q) are worth 1 unit each, and Exercises (E) are worth 2 units each. Full credit is awarded for correct equations and answers, half credit for correct equations but incorrect answers.

Not all problems must be attempted or completed; only do enough to get as many units out of 40 units maximum as you wish. (Percentage of units earned out of 40) times (10 points) will be added to your exam grade. (Example: 10 questions completed correctly, 12 exercises completed correctly, 4 exercises done, but wrong.
Extra credit = $[10*(1) + 11*(2) + 4*(1)] / 40 * 10 = +9$ points added to exam percentage.)

These problems must be from the **8th edition** of the Griffith text
(This text is available for 1-hour checkout in the library)

Chapter 2 – Describing Motion	Questions: 6, 10, 16, 20 Exercises: 2, 6, 10, 14
Chapter 3 – Falling Objects and Projectile Motion	Q: 4, 8, 12, 18 E: 2, 6, 10, 12
Chapter 4 – Newton's Laws – Explaining Motion	Q: 6, 10, 16, 22, 24 E: 2, 4, 10, 12
Chapter 5 – Circular Motion, the Planets, and Gravity	Q: 2, 6, 12, 20 E: 2, 8, 10, 12
Chapter 6 – Energy and Oscillations	Q: 2, 4, 14, 20, 24 E: 2, 6, 10, 12