

A.P. Physics 1 First Semester Review Sheet

Fall, Dr. Wicks

Chapter 1: Introduction to Physics

- Review types of zeros and the rules for significant digits
- Review mass vs. weight, precision vs. accuracy, and dimensional analysis problem solving.

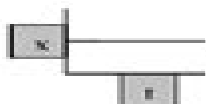
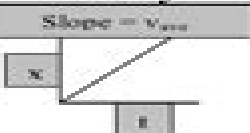
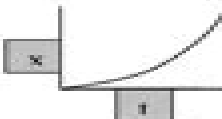
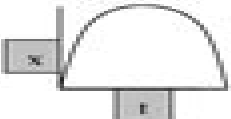
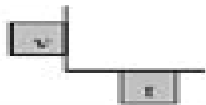
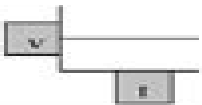
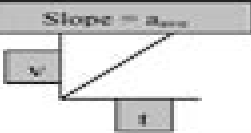
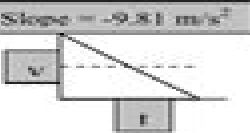
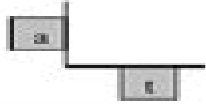
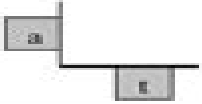
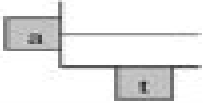
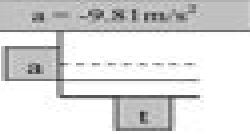
Chapter 2: One-Dimensional Kinematics

A. Velocity

- Equations for average velocity: $v_{\text{ave}} = \frac{\Delta x}{\Delta t} = \frac{x_f - x_i}{t_f - t_i}$ and $v_{\text{ave}} = \frac{1}{2}(v_f + v_i)$
- In a position-versus-time graph for constant velocity, the slope of the line gives the average velocity. See Table 1.
- Instantaneous velocity can be determined from the slope of a line tangent to the curve at a particular point on a position-versus-time graph.
- Use $v_{\text{ave}} = \frac{\Delta x_{\text{total}}}{\Delta t_{\text{total}}}$ to calculate the average velocity for an entire journey if given information about the various legs of the journey.

B. Acceleration

- Equation for average acceleration: $a_{\text{ave}} = \frac{\Delta v}{\Delta t} = \frac{v_f - v_i}{t_f - t_i}$
- In a velocity-versus-time graph for constant acceleration, the slope of the line gives acceleration and the area under the line gives displacement. See Table 1.
- Acceleration due to gravity = $g = 9.81 \text{ m/s}^2$. (Recall $a = -g = -9.81 \text{ m/s}^2$)

Table 1: Graphing Changes in Position, Velocity, and Acceleration				
	<i>Constant Position</i>	<i>Constant Velocity</i>	<i>Constant Acceleration</i>	<i>Ball Thrown Upward</i>
<i>Position Versus Time:</i>				
<i>Velocity Versus Time:</i>				
<i>Acceleration Versus Time:</i>				

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Terry C. Jones



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