

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.

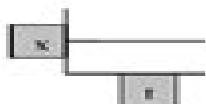
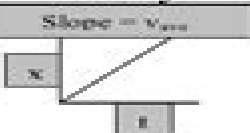
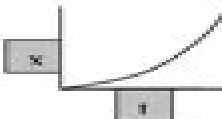
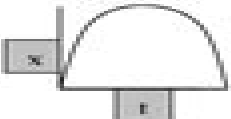
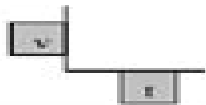
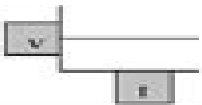
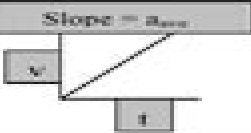
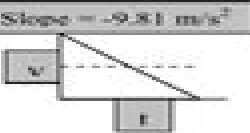
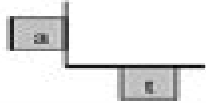
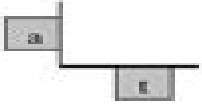
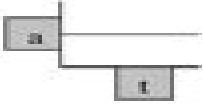
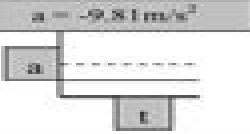
Chapter 2: One-Dimensional Kinematics

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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web understand various methods of setting out curves in the field and problems in setting out these curves and know about the need of super elevation and transition curves be uniform and may consist of different gradients for instance rising gradient may be followed by falling gradient and vice versa

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web a compound curve consists of two or more circular curves between two main tangents joined at point of compound curve pcc curve at pc is designated as 1 r 1 l 1 t 1 etc and curve at pt is designated as 2 r 2 l 2 t 2 etc

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web the point where the two curves connect namely the point at which the pt of the first curve equals the pc of the second
curve is referred to as the point of compound curvature pcc since their tangent lengths vary compound curves fit the
topography much better than simple curves