

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.

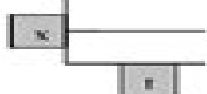
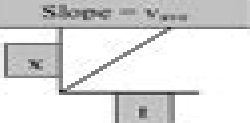
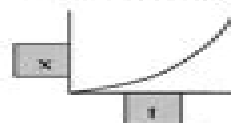
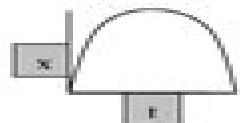
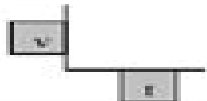
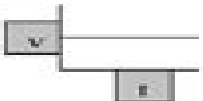
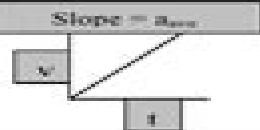
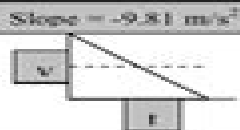
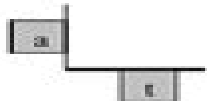
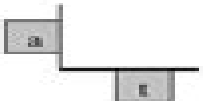
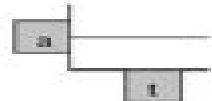
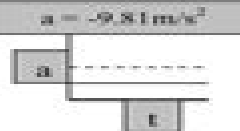
Chapter 2: One-Dimensional Kinematics

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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Arshad Iqbal



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web astm b209 checker plate 96 48 1 4 thick 8 mm thick 5 bar checker plate size 1620 840 and 1423 525 checkered plate thickness 4 mm and size 3200 mm 1524 mm checker plate thickness 7 mm width 1500 mm and total quantity 3000 m²

checker plate floor loading structural engineering general - Aug 16 2023

web apr 19 2007 existing 1 4 thick steel checker plate floor is under scrutiny i m having difficulty finding a method to determine the maximum allowable concentrated load a typical plate is rectangular and simply supported on four

durbar safe load table f h brundle - Jan 09 2023

web safe load table specifically for platforms and other large floor areas mild steel to bs 4360 grade 43a for floor plates supported and securely bolted down on all four sides tabulated loads are calculated to a maximum stress of 165n mm² 1

mebac steel plate load table ikg - Jul 15 2023

web steel safe load table uniform load in pounds per square foot deflection in inches concentrated load at mid span in pounds per foot of width 7 16 x 12 s 3 ft 0 3828 i 4 ft 0 0837 49 1 2 x 12 s 3 ft 0 5000 i 4 ft 0 1250 54 5 8 x

steel diamond plate analysis structural engineering general - Aug 04 2022

web may 8 2011 the data i have shows the wheel load over an area 11 inch by 11 inch for a 5t capacity but you should see if you can get the loads and area from the manufacturer as far as software i would just do it by hand

plate load test to calculate bearing capacity and settlement of soil - Jul 03 2022

web ultimate bearing capacity ultimate load for plate x width of pit b f size of plate b p q u f q u p x b f b p finally safe bearing capacity ultimate bearing capacity factor of safety the factor of safety ranges from 2 to 3 calculation of foundation settlement from plate load test we can also calculate settlement for given

floor plate fasteel - Mar 31 2022

web checker plate also known as floor plate tread plate or diamond plate is a type of steel plate with a regular pattern of raised diamonds or lines on one side with the reverse side being featureless our checker plate comes in a hot rolled material and a variety of sizes and thicknesses

checkered plate design structural engineering general - Feb 10 2023

web sep 7 2010 6 sep 10 16 13 i am designing a checkered plate which is subjected to traffic the plate is 8 mm thick and the span is 2m in order to withstand the design load i try to provide a stiffener but unfortunately it fails due limited depth of stiffener of 25mm i try also to make the distances of the stiffener as close as possible but it still fail