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$a = (444 \text{ m/s} - 0 \text{ m/s}) / (1.83 \text{ s})$ $a = 243 \text{ m/s}^2$
 $d = v_i * t + 0.5 * a * t^2$ $d = (0 \text{ m/s}) * (1.83 \text{ s}) + 0.5 * (243 \text{ m/s}^2) * (1.83 \text{ s})^2$
 $d = 0 \text{ m} + 406 \text{ m}$ $d = 406 \text{ m}$ (Note: the d can also be calculated using the equation $v_f^2 = v_i^2 + 2 * a * d$)
Return to Problem 6

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Identify exactly what needs to be determined in the problem (identify

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the unknowns). In complex problems, especially, it is not always obvious what needs to be found or in what sequence. Making a list can help identify the unknowns. Determine which physical principles can help you solve the problem. Since physical principles tend to be expressed in the form of mathematical equations, a list of knowns and unknowns can help here.

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1 Teacher ' s Manual TEXTBOOK
SOLUTIONS Exercise 1.1 Q1 Area =
length \times length Unit of area =

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(m)(m) = = the square metre Q2 =
(Unit of m)(Unit of v) = (kg)(m s⁻¹) =
kg m s⁻¹ = the kilogram metre per
second Q3 Unit of a = = = m s⁻² =
the metre per second squared Q4 kg
m⁻³, density = Unit of density =
= kg m⁻³ Q5 P = Unit of P =

TEXTBOOK SOLUTIONS

MASSACHUSETTS INSTITUTE OF
TECHNOLOGY Physics Department
8.044 Statistical Physics I Spring Term
2004 Solutions to Problem Set #1
Problem 1: A Continuous Random
Variable, a Harmonic Oscillator a) First
find the velocity as a function of time
by taking the derivative of the dis-
placement with respect to time. $\frac{d}{dt} [x_0 \sin(\omega t + \phi)] = x_0 \omega \cos(\omega t + \phi)$ But we don't want the
velocity as a function of t, we want it
as a function of the position x.

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Problems and solutions statistical physics 1

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