

11.1

Given: $x = 4t^3 - 6t^2 + 2t - 1$ $x = m$, $t = s$
 Find: x , v , and a at $t = 2s$

Have - $x = 4t^3 - 6t^2 + 2t - 1$
 Then $v = \frac{dx}{dt} = 12t^2 - 12t + 2$
 And $a = \frac{dv}{dt} = 24t - 12$

At $t = 2s$: $x_2 = 4(2)^3 - 6(2)^2 + 2(2) - 1$ OR $x_2 = 19m$
 $v_2 = 12(2)^2 - 12(2) + 2$ OR $v_2 = 38 \frac{m}{s}$
 $a_2 = 48(2) - 12(2)$ OR $a_2 = 60 \frac{m}{s^2}$

11.2

Given: $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$ $x = mm$, $t = s$
 Find: x , v , and a at $t = 3s$

Have - $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$
 Then $v = \frac{dx}{dt} = 12t^3 + 12t^2 - 14t - 5$
 And $a = \frac{dv}{dt} = 36t^2 + 24t - 14$

At $t = 3s$: $x_3 = 3(3)^4 + 4(3)^3 - 7(3)^2 - 5(3) + 8$ OR $x_3 = 121mm$
 $v_3 = 12(3)^3 + 12(3)^2 - 14(3) - 5$ OR $v_3 = 305 \frac{mm}{s}$
 $a_3 = 36(3)^2 + 24(3) - 14$ OR $a_3 = 382 \frac{mm}{s^2}$

11.3

Given: $x = 6t^3 - 8 + 40 \cos 6t$ $x = m$, $t = s$
 Find: x , v , and a at $t = 6s$

Have - $x = 6t^3 - 8 + 40 \cos 6t$
 Then $v = \frac{dx}{dt} = 18t^2 - 40 \sin 6t$
 And $a = \frac{dv}{dt} = 36t - 40 \cos 6t$

At $t = 6s$: $x_6 = 6(6)^3 - 8 + 40 \cos 36$ OR $x_6 = 248m$
 $v_6 = 12(6)^2 - 40 \sin 36$ OR $v_6 = 71 \frac{m}{s}$
 $a_6 = 72 - 40 \cos 36$ OR $a_6 = 383 \frac{m}{s^2}$

11.4

Given: $x = \frac{5}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$ $x = ft$, $t = s$
 Find: t , x , and a when $v = 0$

Have - $x = \frac{5}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$
 Then $v = \frac{dx}{dt} = 5t^2 - 7t - 30$
 And $a = \frac{dv}{dt} = 10t - 7$

When $v = 0$: $5t^2 - 7t - 30 = 5(t^2 - t - 6) = 0$
 OR $t = 3s$ AND $t = -2s$ (reject) $\therefore t = 3s$

At $t = 3s$: $x_3 = \frac{5}{2}(3)^3 - \frac{7}{2}(3)^2 - 30(3) + 8$ OR $x_3 = -58.5ft$
 $a_3 = 10(3) - 7$ OR $a_3 = 23 \frac{ft}{s^2}$

11.5

Given: $x = 6t^4 - 2t^3 - 12t^2 + 3t + 3$ $x = m$, $t = s$
 Find: t , x , and a when $a = 0$

Have - $x = 6t^4 - 2t^3 - 12t^2 + 3t + 3$
 Then $v = \frac{dx}{dt} = 24t^3 - 6t^2 - 24t + 3$
 And $a = \frac{dv}{dt} = 72t^2 - 12t - 24$

When $a = 0$: $72t^2 - 12t - 24 = 12(6t^2 - t - 2) = 0$
 OR $(3t + 2)(2t - 1) = 0$

OR $t = -\frac{2}{3}s$ AND $t = \frac{1}{2}s$ (reject) $\therefore t = 0.5s$
 At $t = \frac{1}{2}s$: $x_{\frac{1}{2}} = 6(\frac{1}{2})^4 - 2(\frac{1}{2})^3 - 12(\frac{1}{2})^2 + 3(\frac{1}{2}) + 3$ OR $x_{\frac{1}{2}} = 2.59m$
 $a_{\frac{1}{2}} = 72(\frac{1}{2})^2 - 12(\frac{1}{2}) - 24$ OR $a_{\frac{1}{2}} = -9.5 \frac{m}{s^2}$

11.6

Given: $x = 3t^3 - 4t^2 - 12t + 5$ $x = m$, $t = s$
 Find: (a) t when $v = 0$
 (b) x and total distance traveled when $t = 4s$

Have - $x = 3t^3 - 4t^2 - 12t + 5$
 Then $v = \frac{dx}{dt} = 9t^2 - 8t - 12$
 And $a = \frac{dv}{dt} = 18t - 8$

(a) When $v = 0$: $9t^2 - 8t - 12 = 3(3t^2 - 4t - 4) = 0$
 OR $(3t + 2)(t - 2) = 0$

OR $t = -\frac{2}{3}s$ AND $t = 2s$ (reject) $\therefore t = 2s$

(b) At $t = 4s$: $x_4 = 3(4)^3 - 4(4)^2 - 12(4) + 5$ OR $x_4 = 55m$
 $a = 18(4) - 8$ OR $a = 60 \frac{m}{s^2}$

First observe that $0 \leq t \leq 2s$: $v < 0$
 $t > 2s$: $v > 0$

Now - At $t = 0$: $x_0 = 5m$
 At $t = 2s$: $x_2 = 3(2)^3 - 4(2)^2 - 12(2) + 5 = -19m$



Then $x_2 - x_0 = -19 - 5 = -24m$

$x_4 - x_2 = 55 - (-19) = 74m$

$\therefore$ Total distance traveled = $(24 + 74)m = 98m$

11.7

Given: $x = t^3 - 9t^2 + 24t - 8$ $x = m$, $t = s$
 Find: (a) t when $v = 0$
 (b) x and total distance traveled when $a = 0$

Have - $x = t^3 - 9t^2 + 24t - 8$
 Then $v = \frac{dx}{dt} = 3t^2 - 18t + 24$
 And $a = \frac{dv}{dt} = 6t - 18$

(a) When $v = 0$: $3t^2 - 18t + 24 = 3(t^2 - 6t + 8) = 0$
 OR $(t - 2)(t - 4) = 0$

OR $t = 2s$ AND $t = 4s$

(b) When $a = 0$: $6t - 18 = 0$ OR $t = 3s$
 At $t = 3s$: $x_3 = 3(3)^3 - 9(3)^2 + 24(3) - 8$ OR $x_3 = 10m$

First observe that $0 \leq t \leq 2s$: $v > 0$
 $2s < t < 4s$: $v < 0$

Now - At $t = 0$: $x_0 = -8m$
 At $t = 2s$: $x_2 = (2)^3 - 9(2)^2 + 24(2) - 8 = 12m$



Then $x_2 - x_0 = 12 - (-8) = 20m$

$x_3 - x_2 = 10 - 12 = -2m$

$\therefore$ Total distance traveled = $(20 + 2)m = 22m$

Beer Dynamics 9th Solution Manual

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Aircraft Performance Mohammad H. Sadraey, 2017-01-27 Aircraft Performance An Engineering Approach introduces flight performance analysis techniques that enable readers to determine performance and flight capabilities of aircraft Flight performance analysis for prop driven and jet aircraft is explored supported by examples and illustrations many in full color MATLAB programming for performance analysis is included and coverage of modern aircraft types is emphasized The text builds a strong foundation for advanced coursework in aircraft design and performance analysis New at the Energy Library Energy Library, 1991 *Railway Noise and Vibration* David Thompson, 2008-12-11 Railways are an environmentally friendly means of transport well suited to modern society However noise and vibration are key obstacles to further development of the railway networks for high speed intercity traffic for freight and for suburban metros and light rail All too often noise problems are dealt with inefficiently due to lack of understanding of the problem This book brings together coverage of the theory of railway noise and vibration with practical applications of noise control technology at source to solve noise and vibration problems from railways Each source of noise and vibration is described in a systematic way rolling noise curve squeal bridge noise aerodynamic noise ground vibration and ground borne noise and vehicle interior noise Theoretical modelling approaches are introduced for each source in a tutorial fashion Practical applications of noise control technology are presented using the theoretical models Extensive examples of application to noise reduction techniques are included *Railway Noise and Vibration* is a hard working reference and will be invaluable to all who have to deal with noise and vibration from railways whether working in the industry or in consultancy or academic research David Thompson is Professor of Railway Noise and Vibration at the Institute of Sound and Vibration Research University of Southampton He has worked in the field of railway noise since 1980 with British Rail Research in Derby UK and TNO Institute of Applied Physics in the Netherlands before moving to Southampton in 1996 He was responsible for developing the TWINS software for predicting rolling noise Discusses fully the theoretical background and practical workings of railway noise Includes the latest research findings brought together in one place Forms an extended case study in the application of noise control techniques

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web 1 mention the subject line as leave application for online classes or regarding not attending online classes 2 write your name at the starting of the email or letter 3 mention the date on which you didn t attend or not attending the online classes 4

say apology for not attending 5

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web jun 21 2021 the letter should always be written in a polite tone to express your regret for not being able to attend the classes this will your teacher to understand that you were not also not happy not being able to attend the class keep the letter short and give your reason for being absent from the class in a respectful manner

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web sample 1 hello professor i hope this email finds you well i apologize for not being in class today i had planned on attending but i was unable to get to class on time because of a family emergency i hope you understand my situation and forgive me i will make sure to be more prompt in the future sincerely your name sample 2 hello everyone