11.1

GIVEN: $x = 4t^3 - 6t^2 + 2t - 1$ $\quad x$ – m, t – s

FIND: x, v, AND a AT $t = 2$ s

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 $t = 2$ s: $x_2 = 4(2)^3 - 6(2)^2 + 2(2) - 1$ OR $x_2 = 19$ m

$v_2 = 12(2)^2 - 12(2) + 2$ OR $v_2 = 26$ m/s

$a_2 = 24(2) - 12$ OR $a_2 = 36$ m/s²

11.2

GIVEN: $x = 3t^4 - 4t^3 - 7t^2 - 5t + 8$ $\quad x$ – mm, t – s

FIND: x, v, AND a AT $t = 3$ s

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 $t = 3$ s: $x_3 = 3(3)^4 - 4(3)^3 - 7(3)^2 - 5(3) + 8$ OR $x_3 = 20$ mm

$v_3 = 12(3)^3 - 12(3)^2 - 14(3) - 5$ OR $v_3 = 385$ mm/s

$a_3 = 36(3)^2 - 24(3) - 14$ OR $a_3 = 382$ mm/s²

11.3

GIVEN: $x = 6t^2 - 8t + 40$ cos πt $\quad x$ – in., t – s

FIND: x, v, AND a AT $t = 6$ s

HAVE … $x = 6t^2 - 8t + 40\cos\pi t$

THEN $v = \frac{dx}{dt} = 12t - 40\pi \sin\pi t$

AND $a = \frac{dv}{dt} = 12 - 40\pi^2 \cos\pi t$

AT $t = 6$ s: $x_6 = 6(6)^2 - 8 + 40\cos 6\pi$ OR $x_6 = 248$ in.

$v_6 = 12(6) - 40\pi \sin 6\pi$ OR $v_6 = 72$ in/s

$a_6 = 12 - 40\pi^2 \cos 6\pi$ OR $a_6 = -383$ in/s²

11.4

GIVEN: $x = \frac{2}{3}t^3 - \frac{3}{2}t^2 - 30t - 8$ $\quad x$ – ft, t – s

FIND: t, x, AND a WHEN $v = 0$

HAVE … $x = \frac{2}{3}t^3 - \frac{3}{2}t^2 - 30t - 8$

THEN $v = \frac{dx}{dt} = 2t^2 - 3t - 30$

AND $a = \frac{dv}{dt} = 4t - 3$

WHEN $v = 0$: $2t^2 - 3t - 30 = 2(t^2 - t - 6) = 0$

OR $t = 3$ s AND $t = -2$ s (REJECT) $\therefore t = 3$ s

AT $t = 3$ s: $x_3 = \frac{2}{3}(3)^3 - \frac{3}{2}(3)^2 - 30(3) - 8$ OR $x_3 = -98.5$ ft

$a_3 = 4(3) - 3$ OR $a_3 = 9$ ft/s²

11.5

GIVEN: $x = 6t^4 - 2t^3 - 12t^2 + 3t + 3$ $\quad x$ – 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) $\therefore t = 0.667$ s

AT $t = \frac{2}{3}$ s: $x_{2/3} = 6(\frac{2}{3})^4 - 2(\frac{2}{3})^3 - 12(\frac{2}{3})^2 + 3(\frac{2}{3}) + 3$ OR $x_{2/3} = 0.259$ m

$a_{2/3} = 24(\frac{2}{3})^3 - 6(\frac{2}{3})^2 - 24(\frac{2}{3}) + 3$ OR $a_{2/3} = -8.56$ m/s²

11.6

GIVEN: $x = 3t^3 - 6t^2 - 12t + 5$ $\quad x$ – m, t – s

FIND: (a) t WHEN $v = 0$

(b) x, a, TOTAL DISTANCE TRAVELED WHEN $t = 4$ s

HAVE … $x = 3t^3 - 6t^2 - 12t + 5$

THEN $v = \frac{dx}{dt} = 9t^2 - 12t - 12$

AND $a = \frac{dv}{dt} = 18t - 12$

(a) WHEN $v = 0$: $9t^2 - 12t - 12 = 3(3t^2 - 4t - 4) = 0$

OR $(3t + 2)(t - 2) = 0$

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

(b) AT $t = 4$ s: $x = 3(4)^3 - 6(4)^2 - 12(4) + 5$ OR $x = 53$ m

$a = 18(4) - 12$ OR $a = 60$ m/s²

FIRST OBSERVE THAT … $0 < t < 2$ s: $v < 0$

$t > 2$ s: $v > 0$

NOW … AT $t = 0$: $x_0 = 5$ m

$t = 2$ s: $x_2 = 3(2)^3 - 6(2)^2 - 12(2) + 5 = -19$ m

THEN $|x_2 - x_0| = |-19 - 5| = 24$ m

$x_4 - x_2 = 53 - (-19) = 72$ m

$\therefore$ TOTAL DISTANCE TRAVELED = $(24 + 72)$ m = 96 m

11.7

GIVEN: $x = t^3 - 9t^2 + 24t - 8$ $\quad x$ – in., 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 $t = 2$ s AND $t = 4$ s

(b) WHEN $a = 0$: $6t - 18 = 0$ OR $t = 3$ s

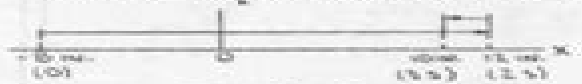
AT $t = 3$ s: $x_3 = (3)^3 - 9(3)^2 + 24(3) - 8$ OR $x_3 = 10$ in.

FIRST OBSERVE THAT … $0 < t < 2$ s: $v > 0$

$2 < t < 3$ s: $v < 0$

NOW … AT $t = 0$: $x_0 = -8$ in.

AT $t = 2$ s: $x_2 = (2)^3 - 9(2)^2 + 24(2) - 8 = 12$ in.



THEN $x_2 - x_0 = 12 - (-8) = 20$ in.

$|x_3 - x_2| = |10 - 12| = 2$ in.

$\therefore$ TOTAL DISTANCE TRAVELED = $(20 + 2)$ in. = 22 in.

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Rose Arny

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Table of Contents Dynamics Solution 9th Edition Beer

1. Understanding the eBook Dynamics Solution 9th Edition Beer
    - The Rise of Digital Reading Dynamics Solution 9th Edition Beer
    - Advantages of eBooks Over Traditional Books
2. Identifying Dynamics Solution 9th Edition Beer
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Dynamics Solution 9th Edition Beer
    - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamics Solution 9th Edition Beer
    - Personalized Recommendations
    - Dynamics Solution 9th Edition Beer User Reviews and Ratings

- Dynamics Solution 9th Edition Beer and Bestseller Lists

5. Accessing Dynamics Solution 9th Edition Beer Free and Paid eBooks
   - Dynamics Solution 9th Edition Beer Public Domain eBooks
   - Dynamics Solution 9th Edition Beer eBook Subscription Services
   - Dynamics Solution 9th Edition Beer Budget-Friendly Options
6. Navigating Dynamics Solution 9th Edition Beer eBook Formats
   - ePub, PDF, MOBI, and More
   - Dynamics Solution 9th Edition Beer Compatibility with Devices
   - Dynamics Solution 9th Edition Beer Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Dynamics Solution 9th Edition Beer
   - Highlighting and Note-Taking Dynamics Solution 9th Edition Beer
   - Interactive Elements Dynamics Solution 9th Edition Beer
8. Staying Engaged with Dynamics Solution 9th Edition Beer
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Dynamics Solution 9th Edition Beer
9. Balancing eBooks and Physical Books Dynamics Solution 9th Edition Beer
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Dynamics Solution 9th Edition Beer
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Dynamics Solution 9th Edition Beer
    - Setting Reading Goals Dynamics Solution 9th Edition Beer
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dynamics Solution 9th Edition Beer
    - Fact-Checking eBook Content of Dynamics Solution 9th Edition Beer
    - Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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