

11.1

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

Have - $x = 6t^3 - 8 + 40 \cos 6t$
 Then $v = \frac{dx}{dt} = 12t^2 - 40 \sin 6t$
 And $a = \frac{dv}{dt} = 24t - 40 \pi^2 \cos 6t$

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 $v_6 = 71 \frac{m}{s}$
 $a_6 = 24(6) - 40 \pi^2 \cos 36$ 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, a 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, a 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 $a_{\frac{1}{2}} = 9.54 \frac{m}{s^2}$

11.6

Given: $x = 3t^3 - 4t^2 - 12t + 5$ $x = m, t = s$
 Find: (a) t when $v = 0$
 (b) x, a and total distance travelled 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 $x_4 = 55m$
 $a_4 = 18(4) - 8$ OR $a_4 = 60 \frac{m}{s^2}$

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 travelled = $(24 + 74)m = 98m$

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 travelled 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 $t = 3s$: $x_3 = (3)^3 - 9(3)^2 + 24(3) - 8$ OR $x_3 = 10m$

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

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 travelled = $(20 + 2)m = 22m$

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R Sanford



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Dynamics - Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics *Canadiana* ,1982

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