

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