

11.1

Given: $x = 4t^3 - 6t^2 + 2t - 1$ 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: $x_1 = 4(2)^3 - 6(2)^2 + 2(2) - 1$ OR $x_1 = 19$ m
 $v_1 = 12(2)^2 - 12(2) + 2$ OR $v_1 = 38 \frac{m}{s}$
 $a_1 = 24(2) - 12$ OR $a_1 = 36 \frac{m}{s^2}$

11.2

Given: $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$ x - mm, t - s
Find: x , v , and a at $t = 3$ 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: $x_1 = 3(3)^4 + 4(3)^3 - 7(3)^2 - 5(3) + 8$ OR $x_1 = 281$ mm
 $v_1 = 12(3)^3 + 12(3)^2 - 14(3) - 5$ OR $v_1 = 385 \frac{mm}{s}$
 $a_1 = 36(3)^2 + 24(3) - 14$ OR $a_1 = 382 \frac{mm}{s^2}$

11.3

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

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

At $t = 6$ s: $x_1 = 6(6)^3 - 8 + 40 \cos 6\pi$ OR $x_1 = 248$ m
 $v_1 = 12(6)^2 - 40\pi \sin 6\pi$ OR $v_1 = 72 \frac{m}{s}$
 $a_1 = 24(6) - 40\pi^2 \cos 6\pi$ OR $a_1 = 383 \frac{m}{s^2}$

11.4

Given: $x = \frac{3}{2}t^3 - \frac{1}{2}t^2 - 30t + 8$ x - ft, t - s
Find: t , x , and a when $v = 0$

Have - $x = \frac{3}{2}t^3 - \frac{1}{2}t^2 - 30t + 8$
Then $v = \frac{dx}{dt} = 3t^2 - t - 30$
And $a = \frac{dv}{dt} = 6t - 1$

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

At $t = 3$ s: $x_1 = \frac{3}{2}(3)^3 - \frac{1}{2}(3)^2 - 30(3) + 8$ OR $x_1 = -95.5$ ft
 $a_1 = 6(3) - 1$ OR $a_1 = 17 \frac{ft}{s^2}$

11.5

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

Have - $x = 6t^3 - 2t^2 - 12t + 3$
Then $v = \frac{dx}{dt} = 24t^2 - 4t - 12$
And $a = \frac{dv}{dt} = 48t - 4$

When $a = 0$: $48t - 4 = 12(4t - \frac{1}{3}) = 0$
OR $4t = \frac{1}{3}$ AND $t = -\frac{1}{12}$ (REJECT) $\therefore t = 0.083$ s

At $t = 0.083$ s: $x_1 = 6(0.083)^3 - 2(0.083)^2 - 12(0.083) + 3$ OR $x_1 = 2.99$ m
 $v_1 = 24(0.083)^2 - 4(0.083) - 12$ OR $v_1 = -9.66 \frac{m}{s}$

11.6

Given: $x = 3t^3 - 6t^2 + 12t + 5$ 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: $x_1 = 3(4)^3 - 6(4)^2 + 12(4) + 5$ OR $x_1 = 53$ m
 $a_1 = 18(4) - 12$ OR $a_1 = 60 \frac{m}{s^2}$

FIRST OBSERVE THAT $0 \leq t \leq 2$ s: $v < 0$

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

Now - At $t = 0$: $x_2 = 5$ m
 $t = 2$ s: $x_3 = 3(2)^3 - 6(2)^2 + 12(2) + 5 = -19$ m



Then $|x_2 - x_3| = |-19 - 5| = 24$ m

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

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

11.7

Given: $x = t^3 - 9t^2 + 24t + 8$ 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 $t = 2$ s AND $t = 4$ s

(b) When $a = 0$: $6t - 18 = 0$ OR $t = 3$ s
At $t = 3$ s: $x_1 = 3(3)^3 - 9(3)^2 + 24(3) + 8$ OR $x_1 = 10$ m

FIRST OBSERVE THAT $0 \leq t \leq 2$ s: $v > 0$

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

Now - At $t = 0$: $x_2 = 8$ m

At $t = 2$ s: $x_3 = (2)^3 - 9(2)^2 + 24(2) + 8 = 12$ m



Then $x_2 - x_3 = 12 - (8) = 4$ m

$x_4 - x_3 = 10 - 12 = 2$ m

\therefore TOTAL DISTANCE TRAVELED = $(4 + 2)$ m = 6 m

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