11.1

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

Have — $x = 4t^4 - 6t^3 - 2t - 1$
Then — $v = \frac{dx}{dt} = 16t^3 - 18t^2 - 2$
And — $a = \frac{dv}{dt} = 48t^2 - 36t$

At $t = 2s$: $x_2 = 4(2)^4 - 6(2)^3 - 2(2) - 1$ or $x_2 = 19$ m
$v_2 = 16(2)^3 - 18(2)^2 + 2$ or $v_2 = 58 \frac{m}{s}$
$a_2 = 48(2)^2 - 36(2)$ or $a_2 = 120 \frac{m}{s^2}$

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 $x_3 = 281$ mm
$v_3 = 12(3)^3 - 12(3)^2 - 14(3) - 5$ or $v_3 = 385 \frac{mm}{s}$
$a_3 = 36(3)^2 - 24(3) - 14$ or $a_3 = 562 \frac{mm}{s^2}$

11.3

Given: $x = 6t^2 - 8 + 40\cos\pi t$, $x - in$, $t - s$
Find: x, v, and a at $t = 6s$

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

At $t = 6s$: $x_6 = 6(6)^2 - 8 + 40\cos 6\pi$ or $x_6 = 248$ in.
$v_6 = 12(6) - 40\pi\sin 6\pi$ or $v_6 = 72 \frac{in}{s}$
$a_6 = 12 - 40\pi^2\cos 6\pi$ or $a_6 = -383 \frac{in}{s^2}$

11.4

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

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

When $v = 0$: $5t^2 - 5t - 30 = 5(t^2 - t - 6) = 0$
or $t = 3s$ and $t = -2s$ (reject) ∴ $t = 3s$
At $t = 3s$: $x_3 = \frac{5}{3}(3)^3 - \frac{5}{2}(3)^2 - 30(3) + 8$ or $x_3 = -59.5$ ft
$a_3 = 10(3) - 5$ or $a_3 = 25 \frac{ft}{s^2}$

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) ∴ $t = 0.667s$
At $t = \frac{2}{3}s$: $x = 6(\frac{2}{3})^4 - 2(\frac{2}{3})^3 - 12(\frac{2}{3})^2 + 3(\frac{2}{3}) + 3$ or $x = 0.259$ m
$v = 24(\frac{2}{3})^3 - 6(\frac{2}{3})^2 - 24(\frac{2}{3}) + 3$ or $v = -8.56 \frac{m}{s}$

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 $t = 4s$

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 $t = 2s$ and $t = -\frac{2}{3}s$ (reject) ∴ $t = 2s$
(b) At $t = 4s$: $x = 3(4)^3 - 6(4)^2 - 12(4) + 5$ or $x = 53$ m
$a = 18(4) - 12$ or $a = 60 \frac{m}{s^2}$
First observe that — $0 \le t < 2s$: $v < 0$
$t > 2s$: $v > 0$
Now — At $t = 0$: $x_0 = 5$ m
$t = 2s$: $x_2 = 3(2)^3 - 6(2)^2 - 12(2) + 5 = -19$ m

```
|------|---------|---------------------|→ x
 -19m   0  5m              53m
 (2s)  (0)                 (4s)
```

Then $|x_2 - x_0| = |-19 - 5| = 24$ m
$x_4 - x_2 = 53 - (-19) = 72$ m
∴ Total distance traveled $= (24 + 72)$ m $= 96$ m

11.7

Given: $x = t^3 - 9t^2 + 24t - 8$, $x - in$, $t - s$
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 $t = 2s$ and $t = 4s$
(b) When $a = 0$: $6t - 18 = 0$ or $t = 3s$
At $t = 3s$: $x = (3)^3 - 9(3)^2 + 24(3) - 8$ or $x = 10$ in.
First observe that — $0 \le t < 2s$: $v > 0$
$2s < t \le 3s$: $v < 0$
Now — At $t = 0$: $x_0 = -8$ in.
At $t = 2s$: $x_2 = (2)^3 - 9(2)^2 + 24(2) - 8 = 12$ in.

```
|------|--------------|----|→ x
 -8in   0           10in  12in
 (0)                (3s)  (2s)
```

Then $x_2 - x_0 = 12 - (-8) = 20$ in.
$|x_3 - x_2| = |10 - 12| = 2$ in.
∴ Total distance traveled $= (20 + 2)$ in. $= 22$ in.

1

Beer Johnston Dynamics Solutions 9th Edition

G Thomas

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