

11.1
 GIVEN: $x = 4t^3 - 6t^2 - 2t - 1$ x - m, t - s
 FIND: $x, v, \text{ and } a$ 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 $t = 2s$: $x_1 = 4(2)^3 - 6(2)^2 - 2(2) - 1$ OR $x_1 = 19 \text{ m}$ \blacktriangleleft
 $v_1 = 12(2)^2 - 12(2) - 2$ OR $v_1 = 58 \frac{\text{m}}{\text{s}}$ \blacktriangleleft
 $a_1 = 24(2) - 12(2)$ OR $a_1 = 24 \frac{\text{m}}{\text{s}^2}$ \blacktriangleleft

11.2
 GIVEN: $x = 3t^4 + 4t^3 - 7t^2 - 5t + 8$ x - mm, t - s
 FIND: $x, v, \text{ and } a$ 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 $t = 3s$: $x_1 = 3(3)^4 + 4(3)^3 - 7(3)^2 - 5(3) + 8$ OR $x_1 = 281 \text{ mm}$ \blacktriangleleft
 $v_1 = 12(3)^3 + 12(3)^2 - 14(3) - 5$ OR $v_1 = 385 \frac{\text{mm}}{\text{s}}$ \blacktriangleleft
 $a_1 = 36(3)^2 + 24(3) - 14$ OR $a_1 = 392 \frac{\text{mm}}{\text{s}^2}$ \blacktriangleleft

11.3
 GIVEN: $x = 6t^3 - 8 + 40 \cos \pi t$ x - m, t - s
 FIND: $x, v, \text{ and } a$ AT $t = 6s$

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

11.4
 GIVEN: $x = \frac{3}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$ x - ft, t - s
 FIND: $t, x, \text{ and } a$ WHEN $v = 0$

HAVE - $x = \frac{3}{2}t^3 - \frac{7}{2}t^2 - 30t + 8$
 THEN $v = \frac{dx}{dt} = 3t^2 - 7t - 30$
 AND $a = \frac{dv}{dt} = 6t - 7$

WHEN $v = 0$: $3t^2 - 7t - 30 = 5(t^2 - t - 6) = 0$
 OR $t = 3s$ AND $t = -2s$ (REJECT) $\therefore t = 3s$ \blacktriangleleft

AT $t = 3s$: $x_1 = \frac{3}{2}(3)^3 - \frac{7}{2}(3)^2 - 30(3) + 8$ OR $x_1 = -98.5 \text{ ft}$ \blacktriangleleft
 $a_1 = 6(3) - 7$ OR $a_1 = 11 \frac{\text{ft}}{\text{s}^2}$ \blacktriangleleft

11.5
 GIVEN: $x = 6t^3 - 2t^2 - 12t^2 + 3t + 3$ x - m, t - s
 FIND: $t, x, \text{ and } v$ WHEN $a = 0$

HAVE - $x = 6t^3 - 2t^2 - 12t^2 + 3t + 3$
 THEN $v = \frac{dx}{dt} = 24t^2 - 4t - 24t + 3$
 AND $a = \frac{dv}{dt} = 48t - 12t - 24$

WHEN $a = 0$: $48t^2 - 12t - 24 = 12(4t^2 - t - 2) = 0$
 OR $(4t + 2)(t - 1) = 0$
 OR $t = -\frac{1}{2}s$ AND $t = 1s$ (REJECT) $\therefore t = 1s$ \blacktriangleleft

AT $t = 1s$: $x_1 = 6(1)^3 - 2(1)^2 - 12(1)^2 + 3(1) + 3$ OR $x_1 = -19 \text{ m}$ \blacktriangleleft
 $v_1 = 24(1)^2 - 4(1) - 24(1) + 3$ OR $v_1 = -2 \frac{\text{m}}{\text{s}}$ \blacktriangleleft

11.6
 GIVEN: $x = 3t^3 - 6t^2 + 12t + 5$ x - m, t - s
 FIND: (a) t WHEN $v = 0$
 (b) $x, a, \text{ TOTAL DISTANCE TRAVELLED}$ 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) $\therefore t = 2s$ \blacktriangleleft

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

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

NOW... AT $t = 0$: $x_0 = 5 \text{ m}$
 AT $t = 2s$: $x_2 = 3(2)^3 - 6(2)^2 + 12(2) + 5 = -19 \text{ m}$



THEN $|x_2 - x_0| = |-19 - 5| = 24 \text{ m}$
 $x_1 - x_2 = 53 - (-19) = 72 \text{ m}$
 \therefore TOTAL DISTANCE TRAVELLED = $(24 + 72) \text{ m} = 96 \text{ m}$ \blacktriangleleft

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 $t = 4s$ \blacktriangleleft

(b) WHEN $a = 0$: $6t - 18 = 0$ OR $t = 3s$ \blacktriangleleft
 AT $t = 3s$: $x_1 = 3(3)^3 - 9(3)^2 + 24(3) + 8$ OR $x_1 = 10 \text{ m}$ \blacktriangleleft
 FIRST OBSERVE THAT \dots $0 < t < 2s$: $v > 0$
 $2 < t < 3s$: $v < 0$
 $3 < t < 4s$: $v > 0$

NOW... AT $t = 0$: $x_0 = 8 \text{ m}$
 AT $t = 2s$: $x_2 = (2)^3 - 9(2)^2 + 24(2) + 8 = 12 \text{ m}$



THEN $x_2 - x_0 = 12 - (8) = 4 \text{ m}$
 $|x_3 - x_2| = |10 - 12| = 2 \text{ m}$
 \therefore TOTAL DISTANCE TRAVELLED = $(4 + 2) \text{ m} = 6 \text{ m}$ \blacktriangleleft

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