

**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  $v = \frac{dx}{dt} = 18t^2 - 40\pi \sin \pi t$   
 AND  $a = \frac{dv}{dt} = 36t - 40\pi^2 \cos \pi t$

AT  $t = 6s$ :  $x_1 = 6(6)^3 - 8 + 40 \cos 6\pi$  OR  $x_1 = 248 \text{ m}$   $\blacktriangleleft$   
 $v_1 = 18(6)^2 - 40\pi \sin 6\pi$  OR  $v_1 = 72 \frac{\text{m}}{\text{s}}$   $\blacktriangleleft$   
 $a_1 = 36(6) - 40\pi^2 \cos 6\pi$  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  $a_1 = 25 \frac{\text{ft}}{\text{s}^2}$   $\blacktriangleleft$

**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  $v = \frac{dx}{dt} = 24t^2 - 24t + 3$   
 AND  $a = \frac{dv}{dt} = 48t - 24$

WHEN  $a = 0$ :  $48t - 24 = 12(4t - 2) = 0$   
 OR  $12(2t - 1) = 0$   
 OR  $t = \frac{1}{2} s$  AND  $t = \frac{1}{2} s$  (REJECT)  $\therefore t = 0.667s$   $\blacktriangleleft$

AT  $t = \frac{1}{2} s$ :  $x_1 = 6(\frac{1}{2})^3 - 2(\frac{1}{2})^2 - 12(\frac{1}{2})^2 + 3(\frac{1}{2}) + 3$  OR  $x_1 = 2.125 \text{ m}$   $\blacktriangleleft$   
 $v_1 = 24(\frac{1}{2})^2 - 24(\frac{1}{2}) + 3$  OR  $v_1 = -2.5 \frac{\text{m}}{\text{s}}$   $\blacktriangleleft$

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

(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  $t = 0$ :  $x_1 = 5 \text{ m}$   
 AT  $t = 2s$ :  $x_2 = 3(2)^3 - 6(2)^2 + 12(2) + 5 = -19 \text{ m}$



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

**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 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  $t = 4s$   $\blacktriangleleft$

(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  $t = 0$ :  $x_1 = 8 \text{ m}$   
 AT  $t = 2s$ :  $x_2 = (2)^3 - 9(2)^2 + 24(2) + 8 = 12 \text{ m}$



THEN  $x_2 - x_1 = 12 - (8) = 4 \text{ m}$   
 $|x_3 - x_2| = |10 - 12| = 2 \text{ m}$   
 $\therefore$  TOTAL DISTANCE TRAVELED =  $(4 + 2) \text{ m} = 6 \text{ m}$   $\blacktriangleleft$

# Dynamics Solution 9th Edition Beer

**Rachel S Tattersall**



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social species Why in all the diversity of the animal kingdom are the social species so few To address the evolutionary question this book focuses on recognition of the fact that on an evolutionary time scale genetics must underlie all changes in the capacity for social structure and other aspects of organic evolution It presents comparative analyses framed in mathematical terms mathematical concepts as a means of getting outside human perhaps more generally primate and carnivore frames of reference and alternative network combinatorics as a natural basis for comparing social structures that are phylogenetically remote It also discusses the comparative biology of social behavior on a purely descriptive basis through the social and evolutionary structures emergent The book concludes by discussing major evolutionary pathways various kinds of preadaptedness for sociality and the use of cascade principle to suggest ways in which human evolution may have been a special case This book is a valuable resource for biologists social scientists researchers students and all those who want to broaden their knowledge in the field of social behavior and altruism

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