

# Solutions To Homework Set 4 Phys2414 Fall 2005

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## JAIDYN STEWART

SOLUTIONS TO HOMEWORK SET #4 - MIT OpenCourseWare  
 Solutions To Homework Set 4 Solutions to Homework Set #4  
 (Prepared by Fatemeh Arbabjolfaei) 1. Two envelopes. An amount A is placed in one envelope and the amount 2A is placed in another envelope. The amount A is fixed but unknown to you. The envelopes are shuffled and you are given one of the envelopes at random. Let X denote the amount you observe in this envelope. Solutions to Homework Set #4 SOLUTIONS TO HOMEWORK SET #4 1. a. If the markets are open to free trade, the monopolist cannot keep the markets separated. Hence, arbitrage opportunities will mean that  $P = P_1 = P_2$ . Total market demand in this case is the sum of the demands from Market 1 and Market 2.  $Q = Q_1 + Q_2 = 25 - 1/2P_1 + 50 - P_2$ .  $Q = 75 - 3/2P$ . SOLUTIONS TO HOMEWORK SET #4 - MIT OpenCourseWare ECE 650 4 b. Marginal pdf's c.  $H(T, X, 1 - Y, 1 - Z)$  contains 2 deltas, each of area  $(1/2)$ ; one is at  $z = 2$ ; the other is at  $z = -1$ . Note that x and y are not independent; hence, we cannot just convolve their pdf's to get the pdf for z. 4. (Papoulis 6-1, a & f) Note that the solution for (a) is equivalent to the Homework Set 4 - Solutions 4!  $\ln 2 > (2 - o(1)) \ln n$ . (here you need the estimate  $\log(n!) \sim n \log n$ ). 3) Let V be a vector space of dimension n over K. Let  $V^{**}$  be the dual space of  $V^*$ . Give an explicit isomorphism between V and  $V^{**}$ . Solution: To each element  $w \in V$ , assign the element  $g_w \in V^{**}$ , defined by  $g_w(v) = f(v)$ , for all  $f \in V^*$ . It is standard to check that this is linear and Solutions to Homework Set 4 Solution Solution to Homework Set #4. ENCE 454 - Design of Concrete Structures - SPRING 2004. Assigned T, 3/2 Due T, 3/9 Problem 1: A reinforced concrete beam of rectangular cross section is reinforced for moment only and subjected to a shear Vu of 9000 lb. Beam width  $b = 12$  in.,  $d = 7.25$  in.,  $f_c' = 3000$  psi, and  $f_y = 60,000$  psi. Solution to Homework Set #4 ENCE 454 - Design of Concrete ... Solutions to Homework Set #4 Winter 2012 1. Boas, p. 105, problem 3.4-12. Find the angle between the vectors  $A = -2i + j$  and  $B = 2i - 2j$ .  $\cos \theta = \frac{A \cdot B}{|A||B|} = \frac{-4}{\sqrt{5}\sqrt{8}} = -\frac{2}{\sqrt{10}}$ . Solve for theta. Physics 116A Solutions to Homework Set #4 Winter 2012 1 ... The numbers on your individual assignment will vary. Any calculated quantities that involve these variable numbers will be boxed as well. 1. GRR1 4.P.025. An 80.0 N crate of apples sits at rest on a ramp that runs from the ground to the bed of a truck. The ramp is inclined at 20.0 to the ground. Solutions to Homework Set #4 Phys2414 - Fall 2005 Dog does not select cancer 3 1 4 Total 36 38 74 Solution The dog got  $\hat{p} = 33/38 = 0.87$  or 87.1% of the breath samples correct and  $\hat{p} = 37/38 = 0.974$  or 97.4% of the stool samples correct. (A remarkably high percentage in both cases!) We create a bootstrap distribution for the difference in proportions using StatKey or other technology (as in the Solutions to Homework 4 Question: Homework Set 4 1. Find The General Solutions To The Following Differential Equations Using Separation Of Variables Or The Reverse Product Rule. Find The General Solutions To The Following Differential Equations Using Separation Of Variables Or The Reverse Product Rule. Solved: Homework Set 4 1. Find The General Solutions To Th ... PHYS 201 Solutions To Homework Set 4 - PHYS 201 Solutions ... Show the object—the system—and everything in the environment that touches the system. Ropes, springs, and surfaces are all parts of the environment. Draw a closed curve around the system. Only the object is inside the curve; everything else is outside. PHYS 201 Solutions To Homework Set 4 - PHYS 201 Solutions ... Ask. Q&A is easy and free on Slader. Our best and brightest are here to help you succeed in the classroom. ASK NOW About Slader. We know what it's like to get stuck on a homework problem. We've been there before. Slader is an independent website supported by millions of students and contributors from all across the globe. Home :: Free

Homework Help and Answers :: Slader Solutions to Homework 4 - Math 3410 1. (Page 157: # 4.85) Find one vector in  $R^3$  that spans the intersection of U and W where U is the  $x - y$  plane - that is,  $U = \{(a, b, 0)^T \mid a, b \in R\}$  - and W is spanned by the vectors  $(1, 1, 1)^T$  and  $(1, 2, 3)^T$ . Solutions to Homework 4 - Math 3410 Solutions to Homework Set 4 Chapter 3 18. Let V denote the event that the voter went to vote, and I; L and C denote the Independents, Liberals and Conservatives. Solutions to Homework Set 4 - University of Utah Solutions to Homework Set #1 2.4. (a) Consider  $H(X; Y, Z) = H(X; Y, Z) + H(X; Y, Z) = H(X; Y) + H(X; Z)$ . (b) Consider  $h(X + Y) = h(X + Y) = h(X + Y)$ . (c) Let  $aY = Y_1 + Y_2$ , where  $Y_1 \sim N(0, 1)$  and  $Y_2 \sim N(0, a^2)$  are independent. Then from part (b),  $h(X + aY) = h(X + Y_1 + Y_2) = h(X + Y)$ . (d) Consider  $I(X; Y_1, Y_2) = I(X; Y_1) + I(X; Y_2) = I(X; Y)$ . Solutions to Homework Set #1 2.4. Return to HW set 4. Return to Syllabus. Return to ECE 350 Page. Return to Homework Solutions Index ... Homework Set 4 Solutions - Arizona State University Don't show me this again. Welcome! This is one of over 2,200 courses on OCW. Find materials for this course in the pages linked along the left. MIT OpenCourseWare is a free & open publication of material from thousands of MIT courses, covering the entire MIT curriculum.. No enrollment or registration. Assignments | Quantum Physics I | Physics | MIT OpenCourseWare Physics 139B Solutions to Homework Set 4 Fall 2009 1. Liboff, problem 12.16 on page 594-595. Consider an atom whose electrons are L-S coupled so that the good quantum numbers are  $j, l, m_j$  and eigenstates of the Hamiltonian  $H_0$  may be written as  $|j, l, m_j\rangle$ . In the presence of a uniform magnetic field  $B \sim$ , the Hamiltonian becomes  $H = H_0 + \mu_B B \sim$ . Physics 139B Solutions to Homework Set 4 Fall 2009 Description. FIN 534 Week 8 Homework Set 4, Chapter 9, 10 and 11. Bad Boys, Inc. is evaluating its cost of capital. Under consultation, Bad Boys, Inc. expects to issue new debt at par with a coupon rate of 8% and to issue new preferred stock with a \$2.50 per share dividend at \$25 a share. FIN 534 Week 8 Homework Solutions Set 4 - OAssignment View Homework Help - Homework 4 Solution on Partial Differential Equations from MATH 435 at University of Tennessee. Homework Set # 4 Math 435 Summer SOLUTIONS 1. Solve the heat equation (i.e. - the Homework 4 Solution on Partial Differential Equations ... EEL-5840 Homework Fall 2015 Dr. Arroyo Partial Solution to Homework Set #4 (Due Tuesday September 24\*, 2015) \* Original Due Date Changed Description. FIN 534 Week 8 Homework Set 4, Chapter 9, 10 and 11. Bad Boys, Inc. is evaluating its cost of capital. Under consultation, Bad Boys, Inc. expects to issue new debt at par with a coupon rate of 8% and to issue new preferred stock with a \$2.50 per share dividend at \$25 a share. Solutions to Homework Set #1 2.4. View Homework Help - Homework 4 Solution on Partial Differential Equations from MATH 435 at University of Tennessee. Homework Set # 4 Math 435 Summer SOLUTIONS 1. Solve the heat equation (i.e. - the Solutions to Homework Set #4 Solutions to Homework 4 - Math 3410 1. (Page 157: # 4.85) Find one vector in  $R^3$  that spans the intersection of U and W where U is the  $x - y$  plane - that is,  $U = \{(a, b, 0)^T \mid a, b \in R\}$  - and W is spanned by the vectors  $(1, 1, 1)^T$  and  $(1, 2, 3)^T$ . Solutions to Homework Set #4 Phys2414 - Fall 2005 Ask. Q&A is easy and free on Slader. Our best and brightest are here to help you succeed in the classroom. ASK NOW About Slader. We know what it's like to get stuck on a homework problem. We've been there before. Slader is an independent website supported by millions of students and contributors from all across the globe. Solutions to Homework Set 4 - University of Utah 4!  $\ln 2 > (2 - o(1)) \ln n$ . (here you need the estimate  $\log(n!) \sim n \log n$ ). 3) Let V be a vector space of dimension n over K. Let  $V^{**}$  be the dual space of  $V^*$ . Give an explicit isomorphism between V

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 and  $B = 2i - 2j - k$ .  $\cos(\theta) = \frac{A \cdot B}{|A||B|}$  and solve for theta.  
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 Note that the solution for (a) is equivalent to the