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# Homework 1 Solutions Stanford University

**homework 1: solutions - mast.queensu** - homework 1: solutions 1. determine whether the following differential equations are linear/non-linear and write down the order. note: recall that a de is linear if and only if it is of the form **homework 1 solutions - sfu** - homework 1 solutions 1. prove or disprove: if every vertex of  $g$  has degree 2, then  $g$  is a cycle. solution: this is false. a graph with two components each of which is a cycle is a coun- **homework #1 solutions - amazon s3** - 20.309: biological instrumentation and measurement laboratory fall 2006 homework #1 solutions problem 1 figure 1: wheatstone bridge. (a) assuming  $r_3$  is set such that the bridge is balanced (i.e.  $v_{ab} = 0$ ), derive an analytical expression for **homework 1 solutions - montana state university** - homework 1 solutions 1.1.4 (a) prove that  $a \subseteq b$  iff  $a \cap b = a$ . proof. first assume that  $a \subseteq b$ . if  $x \in a \cap b$ , then  $x \in a$  and  $x \in b$  by **solutions to homework 1 - mast.queensu** - solutions to homework 1 1. give an example of a nonempty subset of  $\mathbb{R}^2$  such that it is closed under addition and under taking additive inverses (meaning  $u \in S$  whenever  $-u \in S$ ), but it is not a **homework 1 solutions - stanford university** - ee102 prof.syd homework 1 solutions 1. optimizing gains in a two-stage amplifier. consider the two-stage amplifier described on page 2-12 of the lecture notes. **marked homework 1 solutions - math.ubc** - math 200 sections 201 & 202 marked homework 1 solutions friday 2016 january 15 1. (a) find an equation of the sphere that passes through the point  $(13; 7; 2)$  and has **linear algebra i homework #1 solutions 1. b c** - linear algebra i homework #1 solutions 1. show that  $a(5, 3, 4)$ ,  $b(1, 0, 2)$  and  $c(3, -4, 4)$  are the vertices of a right triangle. the given points are the vertices of a triangle whose sides are **homework 1 solutions - math.tamu** - homework 1 solutions section 1.1 1. draw a direction field for the differential equation  $y'' = 3 - 2y$ : based on the direction field, determine the behavior of  $y$  as  $t \rightarrow \infty$ . **ee364a homework 1 solutions - stanford engineering everywhere** - a  $x_1 = (b_1/k_1)u$ ,  $x_2 = (b_2/k_2)u$ ,  $atx = b_2$ ,  $atx = b_1$  the distance between the two hyperplanes is also the distance between the two points  $x_1$  and  $x_2$  where the hyperplane intersects the line through the origin and parallel to **homework 1 solutions - facultyrd** - homework 1 solutions math 361, spring 2018 exercise 1.3.6. given sets  $A$  and  $B$ , define  $A+B = \{a+b : a \in A, b \in B\}$ . follow these steps to prove that if  $A$  and  $B$  are nonempty and bounded above then  $\sup(A+B) = \sup A + \sup B$ . **ee263 homework 1 solutions - webanford** - ee263 prof. s. boyd ee263 homework 1 solutions 2.1 a simple power control algorithm for a wireless network. first some background. we consider a network of  $n$  transmitter/receiver pairs. **homework 1 solutions - math.ucla** - remarks about the computational problem 1: the graph of the function  $f(x) = x^3 - x - 3$  is shown below. we start with  $p_0 = 0$ . the calculation gives: **homework 1 solutions - carnegie mellon school of computer science** - solution: the log likelihood is  $l(x) = n \log n \log(\cdot) + \sum_{i=1}^n x_i \log x_i + \sum_{i=1}^n x_i$  take the derivative with respect to results in a simple expression for in terms of: **homework 1 solutions - cds@tech** - homework 1 solutions math 1c practical, 2008 all questions are from the linear algebra text, o'nan and enderton question 1: 6.4.2 apply gram-schmidt orthogonalization to the following **homework 1 solutions - harvey mudd college** - math 62-probability & statistics summer 2004 homework 1 solutions 3. consider a universal set consisting of the integers 1 through 10, or  $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ . **solutions to homework 1 - math.ubc** - mathematics 220, spring 2019 homework 1 solution solutions to homework 1: problem 1 (1 point).  $f(x, y, z) = x^2 + y^2 + z^2$ , homework 1 solutions - mathlostate - math 147, homework 1 solutions due: april 10, 2012 1. for what values of  $a$  is the set:  $M = \{(x, y, z) : x^2 + y^2 + z^2 = a\}$  a smooth manifold? give explicit parametrizations for open sets covering  $M$  **homework 1 solutions - lake forest college** - 2 chapter 2 problem 7. (exercise 1) prove that  $12 + 22 + \dots + n^2 = n(n+1)(2n+1)/6$  for  $n \geq 1$ . solution 7. we will prove it by induction. the statement is true for  $n=1$  since, the left hand side of the equation is  $1^2 = 1$  and the right hand side is **homework 1 solutions - statistics at uc berkeley** - homework 1 solutions joe neeman september 10, 2010 1. to check that  $\{x_t\}$  is white noise, we need to compute its means and covariances. for the means,  $E\{x_t} = E\{w_t} = 0$ ,  $E\{x_t x_s} = E\{w_t w_s} = \delta_{ts}$  **homework 1 solutions - carnegie mellon school of computer science** - problem 1: background material [20pts] (devendra & hyun-ah) 1.1 probability review (devendra) consider a naive classifier which stochastically assigns labels to data points; specifically, for each label  $l$ , it **homework 1 solutions - ee.nthu** - electric circuits 1 edited by: ching-tzer weng, ming-sung chao homework 1 solutions (due date: 2014/3/3) this assignment covers ch1 and ch2 of the textbook. **homework #1 solutions - duvenaudthub** - 1.2 densities a) yes. for example, the probability density function of a random value uniformly distributed between 0 and 1 has value  $1$  in the interval  $[0, 1]$  **homework 1 solutions - department of physics** - 6.6 where  $r$  is the radius of the gaussian surface. from gauss' law this becomes  $(\rho \cos \phi)(4\pi r^2) = q \in 0$  (1) where  $q$  is the net charge enclosed by the gaussian surface. **homework #1 solutions - trinity university** - homework #1 solutions p 241, #2 the identity element is easily seen to be 6. indeed, in  $\mathbb{Z}_{10}$  we have  $2 \cdot 6 = 12 = 2 \cdot 4 \cdot 6 = 24 = 4 \cdot 6 \cdot 6 = 36 = 6 \cdot 8 \cdot 6 = 48 = 8$ . **homework solutions math 114 1 solution** - homework solutions math 114 problem set 10. 1. find the galois group of  $x^4 + 8x + 12$  over  $\mathbb{Q}$ . solution. the resolvent cubic  $x^3 - 48x + 64$  does not have rational roots. **homework #1 solutions (9/18/06) chapter 1 matrix operations** - which gives what we want since the determinant of the second matrix from the left is 1 by 3.12 (combined with the transpose trick at the end of 3.13) and the determinant of the matrix on the right **homework 1 solutions - university of notre dame** - homework 1 solutions 1. 2. 3. course notes: 1.1 consider the solution of the linear advection equation  $\partial_t \phi + a \partial_x \phi = 0$ : for  $a = 2$ ,  $x \in [0; 5]$ ,  $t \in [0; 5]$ , plot

contours and three-dimensional surfaces of **homework 1 solutions - stanford university** - all  $x^2$ . subtracting  $b$  from both sides and multiplying by 1, we get that  $y$  for all  $x^2$ . hence  $x$  contains a greatest element  $y$ . 7.5. prove the laws of integer exponents **homework #1 solutions - simon fraser university** - homework #1 solutions january 28, 2014 section 1.1 and 1.2 question 2 there are  $v$  vowels,  $(a, e, i, o, u)$ , and  $v$  even digit,  $(0, 2, 4, 6, 8)$ , so by the rule of product there are  $5^5 5^5 5^5 = 56$  different plates where the first two letters are vowels and the last four digits are even. question 4 a. the positions president, vice president, secretary, and treasurer are all distinct, so by the ... **homework 1 solutions - personal.cege.umn** - homework 1 solutions fluid mechanics ce 3502 spring 2019 (1) what is the ratio of the kinematic viscosity of air to that of water at standard pressure and a temperature of  $50^\circ\text{C}$ ? **homework 1 solutions - ucla** - 2. let  $f; : [a;b] \rightarrow \mathbb{R}$  be two increasing functions. suppose  $f(2r) = f(r)$ . show that  $2r(f)$  and that  $b a f d + b a d f = f(b) f(a)$  (a) solution. if  $\pi$  is a partition of  $[a;b]$  given by  $a = x$  **homework 1. solutions - stony brook** - 1 homework 1. solutions q1) the following are the 3 exam scores for 6 students. joe 75 86 90 mary 88 88 97 jim 65 05 100 jane 100 99 78 **math 128a: homework 1 solutions** - math 128a: homework 1 solutions due: june 21 1. determine the limits of the following sequences as  $n \rightarrow \infty$ . (a)  $a_n = 3^n 2^n + 2^n 2^n$ . we have  $\lim_{n \rightarrow \infty} \frac{1}{n!} a_n = \lim_{n \rightarrow \infty} \frac{1}{n!} a_n$  **6.003 homework 1 solutions - mit opencourseware** - homework #1 solutions / fall 2011 10 6. leaky tanks the following figure illustrates a cascaded system of two water tanks. water flows ( $Q$ ), - ... **homework 1 solutions - amazon simple storage service** - 4. initially,  $t = 10$ . we find the rate of change from the differential equation:  $\frac{dt}{dt} = 0.2(20 - t) = 0.2(10) = 2 \text{ c/min}$ . (1) so, we pretend that this rate of change is constant for 2 minutes to find the temperature at **homework 1: solutions - university of illinois** - homework 1: solutions september 16, 2015 1 symmetric differences a moment of reflection shows that  $1 a 4 b = j 1 a 1 b j$ : therefore,  $p[a 4 b] = e[1 a 4 b] = e j 1 a 1 c j e j 1$  **homework 1 solutions - university of washington** - biostatistics 513 homework 1 solutions 1) for this question, i used the "csi" command with the "or" option so an odds ratio would also be calculated. **1 solutions to homework 1 - rncarpio** - 1 solutions to homework 1 1.1 16.1 (working on a joint project) suppose the two actions are  $w$  for work hard,  $g$  for goof off. any matrix where  $u_i(w;w) >$  **homework #1 - solutions - iowa state university** - homework #1 - solutions 1. draw the  $p_v$ -curve for the following cases, and for each, determine the loadability. a.  $b=2, |v_1|=1.0, p_f=0.97$  lagging **homework 1 solutions - dalhousie university** - 3= $\beta k$  this can also be solved using  $a x b = 0$ . (b) if  $a$  and  $b$  are perpendicular to each other, prob. 1.9 (a) a.  $b = a b c o s e a b a x b = a b s i n 9 a a b n$  **homework #1 solutions - university of california, berkeley** - ee227a 9/14/10 homework #1 solutions 1 inside the procrustes problem:  $\min_x \|x - k\|_F$  where  $a_2 r m n, b_2 r m n$  are given, and the matrix  $x_2 r m n$  is the variable. **homework 1 solutions - simon fraser university** - finally, note that we have covered the case  $y = 0$  and the case  $y_6 = 0$  and so  $x = v(y; z) [v(y = x^2; z = y^3)]$  sh. i.3.6: the given rational function is manifestly regular if  $x_6 = 0$ . **solutions to homework 1 - ualberta** - question 2.(5 pts) write down a parametrized representation of the trajectory of a fixed point on a unit circle rolling outside another unit circle centered at the origin. **homework 1 solutions - mit opencourseware** - 1.85 water and wastewater treatment engineering homework 1 - due february 10, 2005 you may collaborate in working on the homework, but the work you submit should be **homework 1 solutions - department of electrical ...** - cs594: artificial intelligence, fall 2004 due: 2:10 pm, monday, september 6, via email to [parker@cs.utk.edu](mailto:parker@cs.utk.edu) homework 1 solutions chapter 1 1. every year the loebner prize is awarded to the program that comes closest to passing a version of the **homework 1 solutions - georgia institute of technology** - homework 1 solutions: if we expand the square in the statistic, we get three terms that have to be summed for each  $i$ :  $(\text{expected frequency}[i])$ ,  $(2 \text{observed frequency}[i])$  and  $(\text{observed frequency}[i])^2 / \text{expected}$

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