

## ***Solutions To Problem Set 1 Stanford University***

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### **Solutions To Problem Set 1**

1. Solution: Starting from  $V_0(k) = 0$ , the first iteration is defined by maximizing the functional function:  $V_1(k) = \max_{c \geq 0} \{k \ln(c) + V_0(k - c)\}$ . In this case, given that for all  $k$  the value of  $V_0(k)$  is 0, it is optimal to consume all capital, i.e.,  $c = k$ . Substituting this optimal solution into the above Bellman equation yields:  $V_1(k) = k \ln(k)$ .

### **Solutions to Problem Set 1 - sef.hku.hk**

18.05 Problem Set 6, Spring 2014 Solutions Problem 1. (10pts.) (a)

Throughout this problem we will let  $x$  be the data of 140 heads out of 250 tosses. We have  $140/250 = .56 \dots$

### **Solutions to Problem Set 1 - MIT OpenCourseWare**

1 CS3102 Theory of Computation Solutions to Selected Problems from Set 1 Department of Computer Science, University of Virginia Gabriel Robins Please start solving these problems immediately, don't procrastinate, and work in study groups. Please

### **Solutions to Problem Set 1 - University of Virginia School ...**

The table command produces counts tabulated by solid fuel status (1/0) and wealth index. When you run `prop.table` on the table output, you have to tell it whether to calculate row percentages (1) or column

### **Solutions to Problem Set 1 - Boston University**

Solutions to Problem Set 1 1. (15 points) Let the economy's production function be  $Y = 5K^{1/2}(EL)^{1/2}$ . Households save 40% of their income; population growth,  $n$ , is equal to 2%; the depreciation rate,  $\delta$ , is equal to 1%; the growth rate in the efficiency of labor,  $g$ , is 2%. (a) (2 points) Show that the aggregate production function is constant returns to

### **Solutions to Problem Set 1 - University of Alberta**

Using our solution from part (a), we know this will occur when:  $\alpha + \beta = 1$ . By a similar logic:  $\alpha + \beta = 1$ . With a little algebra (WALA), we can use (1) and (2) to solve:  $\alpha + \beta = 1$ . Finally, plugging  $k$  and  $h^*$  into our formula  $y_k$ , we have:  $y_k = \dots$

### **Problem Set #1 Solutions - MIT**

Solutions to Problem Set 1 1-4 Consider the problem of perfectly tiling a subset of a checkerboard (i.e. a collection of unit squares, see example below) with dominoes (a domino being 2 adjacent squares). (a) Show that this problem can be formulated as the problem of deciding whether a bipartite graph has a perfect matching.

### **Solutions to Problem Set 1 - math.mit.edu**

Solutions to Problem Set 1 1. We flip a fair coin ten times. Find the probability of the following events. (a) The number of heads and the number of tails are equal. There are 10 flips of which we choose 5 heads, and there are total of 210 ways to flip the coin. Therefore, the probability is  $10 \cdot 5 / 2^{10} = 63 / 256$  (b) There are more heads than ...

### **Solutions to Problem Set 1 - EECS Instructional Support ...**

CSE 105, Solutions to Problem Set 1 (Revised) 7. 2 f s 3 b b 1 a a [b 2 3 b b 1 a a; b a 2 f s [a 3 b a a [b b [a(a [b) f s [a 3 (a [b) a b (b [a(a [b) a b [(ab) (( )) Figure 7: Problem 1.16 (b) Transforming a NFA into the equivalent RE.

### **Solutions to Problem Set 1 (Revised)**

Problem Set 1. Preparation. The problem set is comprised of challenging questions that test your understanding of the material covered in the course. Make sure you have mastered the concepts and problem solving techniques from the following sessions before attempting the problem set: Introduction to Microeconomics.

### **Problem Set 1 | Unit 1: Supply and Demand | Principles of ...**

Solutions to Problem Set #1 1. Let  $\Omega$  be a sample space. Let  $m(a) = \frac{1}{2}$ ;  $m(b) = \frac{1}{3}$  and  $m(c) = \frac{1}{6}$ . Find the ... 1 (unless one of the students - the passenger in the car - was too drunk to remember the details of the incident, in which case the probability that he guesses correctly is 1

### **Solutions to Problem Set #1 - Dartmouth College**

International Finance Problem Set Solutions #1 Under this strategy I need  $Y = \text{peso} (1 + i m x) = 10,000$  Both strategies are worth 10,000 pesos, so set the left-hand side of each equal to each

### **::Solutions:: Problem Set #1: Due end of class September ...**

Solutions to problem set 1 (mostly taken from the solution set of Jan Vondrák) Mandatory Part Problem 1. Application of convex hulls: diameter Let  $P$  be a set of points on the plane. The diameter of  $P$  is defined as  $\max_{p, q \in P} \|p - q\|$ , where  $\|\cdot\|$  is the Euclidean norm. Let  $CH$  be the convex hull of  $P$ .

### **Solutions to problem set 1 - groups.csail.mit.edu**

Problem Set 1: Solutions ECON 301: Intermediate Microeconomics Prof. Marek Weretka Problem 1 (From Varian Chapter 1) In this problem, the supply curve shifts to the left as some of the apartments are converted

### **Problem Set 1: Solutions - ssc.wisc.edu**

Problem Set 1 Solution Note: It's not very fun to punch numbers into a calculator. Plugging in numbers at the very end will often save you time and mistakes. This won't matter so much in this problem set, but try to get in the habit now. 1. From the top of a building of height  $h = 100$  m I throw a stone up with velocity 10 m/s. What is

### **Note: It's not very fun to punch numbers into a calculator ...**

Solution to Problem Set 1 1. [10 points] Consider the following lifetime optimal consumption-saving problem:  $v(a) = \max_{c_1, c_2} \{c_1 + \beta v(a_2)\}$  where  $a_2 = (1+r)a_1 - c_1$ . (14) where  $a_1$  ... Set up the Lagrangian function and find the consumption Euler equation for this model.

### **Solution to Problem Set 1 - University of Hong Kong**

CS229 Problem Set #1 Solutions 2 The  $\lambda$  here is what is known as a regularization parameter, which will be discussed in a future lecture, but which we include here because it is needed for Newton's method to perform well on this task.

### **CS 229, Public Course Problem Set #1 Solutions: Supervised ...**

Problem Set 1 Solutions Point totals are in the margin; the maximum total number of points was 52. You should use these solutions as a rough guide to the level of detail expected in your own solutions. 1. Testing commutativity in groups (a) Note first that some generator  $g_i$  must lie outside  $H$ , since  $H$  is a proper subgroup. So let  $i$  be the 5pts

### **Problem Set 1 Solutions - people.eecs.berkeley.edu**

Problem Sets. Each problem set consists of 25-35 problems which vary in difficulty. A problem set includes the problems, a concealed answer which can be revealed by clicking a button, and an audio-guided solution.

### **Problem Sets - physicsclassroom.com**

2 Solutions to Problem Set 1 iii. Solve  $K \times K$  with  $\{m_1, m_2, m_3, c_1, c_2, c_3\}$  via Gaussian Elimination (remember to implement all operations modulo 26). Or, we may use `matinv` provided for matrix inverting modulo 26. In either way, we have

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