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In so doing, it illuminates aspects of system dynamics, a signature mode of MIT thought: it illustrates the nonlinear complexities of supply chains and the way individuals are circumscribed by the systems in which they act.

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procedure compare with those obtained in Problems 2 and 4?  
SOLUTIONS: See table and plots. Compare ...

## ~~CHAPTER 1 – PROBLEM SOLUTIONS~~

Solutions Day 1 Problem1. Let  $Z$  be the set of integers.  
Determine all functions  $f: Z \rightarrow Z$  such that, for all integers  $a$  and  $b$ ,  $f(2a+2b) = f(a)+f(b)$ . (1) (South Africa) Answer: The

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solutions are  $f(pnq) = 0$  and  $f(pnq) = 2n^k$  for any constant  $K \in \mathbb{Z}$ .  
Common remarks. Most solutions to this problem first prove that  $f$  must be linear, before

~~Problems – IMO2019~~

4 From Problems to Solutions So what is Problem Solving?  
When we are low or depressed, we may struggle to find solutions to our problems or may even think that there are

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MIT Integration Bee Website. Bee: Thursday, January 23rd, 2020, 6:30pm in 26-100; Qualifier: Tuesday, January 21st, 2020, 4-6pm (any 20-minute block) in 4-231



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## ~~MIT Integration Bee~~

The problems in this collection are drawn from problem sets and exams used in Finance Theory I at Sloan over the years. They are created by many instructors of the course, including (but not limited to) Utpal Bhattacharya, Leonid Kogan, Gustavo Manso, Stew Myers, Anna Pavlova, Dimitri Vayanos and Jiang Wang.

## ~~MIT Sloan Finance Problems and Solutions Collection ...~~

Problems: Maximum Value Contiguous Subsequence. Given a sequence of  $n$  real numbers  $A(1) \dots A(n)$ , determine a contiguous subsequence  $A(i) \dots A(j)$  for which the sum of elements in the subsequence is maximized. Making Change. You are given  $n$  types of coin denominations of values  $v(1)$

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$v(2) \dots v(n)$  (all integers).

## ~~Dynamic Programming Practice Problems~~

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Solution: Using the superposition principle, the force on  $q_3$  is  
13 23 31323 2213 23 013 23 1 ^ 4 qq qq ?? rr ?? =+=??+ ??

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FFF r r GGG In this case the second term will have a negative coefficient, since is negative. The unit vectors and do not point in the same directions. In order to compute this sum,

## ~~Chapter 2 Coulomb's Law – MIT~~

Boolean Algebra Practice Problems (do not turn in): Simplify each expression by algebraic manipulation. Try to recognize when it is appropriate to transform to the dual, simplify, and re-transform (e.g. no. 6). Try doing the problems before looking at the solutions which are at the end of this problem set. 1) a  $0 + = \underline{\hspace{2cm}} 14)$

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general. So he gave this problem to Frobenius. In order to find a solution of this problem (which we will explain below), Frobenius created representation theory of finite groups. The general content of representation theory can be very briefly summarized as follows. An associative algebra over a field  $k$  is a vector space  $A$  over  $k$  equipped with an ...

## ~~Lectures and problems in representation theory~~

This page contains problems and solutions to several USA contests, as well as a few others. Hardness scale. Here is an index of many problems by my opinions on their difficulty and subject matter. The difficulties are rated from 0 to 50 in increments of 5, using a scale I devised called MOHS. (The acronym stands for "math olympiad hardness scale", pun

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fully intended).

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