Dror Bar-Natan: Academic Pensieve: Classes: 15-475-ProblemSolving:

Tuesday Jan 20, hour 7: Quiz 2, Formulate an Equivalent Problem

January-20-15 9:16 AM

On board:

- Quiz mark appeals with our TA Gaurav Patil, every Tuesday at 2:55PM in front of the classroom.
- HW: In prep for Thursday, read section 1.3 and think about all the problems in it.

Then Quiz.

Then quiz review.

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My Favourite "Formulate a different problem": The game of 5.

The Sicherman dice: Can you write positive integers on the side of two blank 6-sided dice so that if thrown, the probability distribution for the sum would be the same as if it had been the ordinary pair of dice, marked (1,2,3,4,5,6) and (1,2,3,4,5,6)?

 $Soln: \chi + \chi^{2} + \chi^{3} + \chi(^{4} + \chi(5 + \chi)^{6} = \chi(x+1)|\chi^{2} + \chi + 1)(\chi^{2} - \chi + 1)$ $Soln: \chi + \chi^{2} + \chi^{3} + \chi(^{4} + \chi)^{6} = \chi + \chi^{2} + \chi^{4} + \chi^{5} + \chi^{6} + \chi^{$