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SESSIONSECTION A-WRITTEN ANSWERCourse 6: Spring 2003  
- 1 - GO ON TO NEXT PAGE\*\*BEGINNING OF  
EXAMINATION\*\*1. (6 points) You are given the following with respect to corporate bonds:Rating Spread Over Treasuries (basis points)AAA 20AA 30A 40The one-year rating transition matrix is as follows:Rating at End of YearRating at Beginning of Year AAA AA AAAA 0.8 0.1 0.1AA 0.1 0.7 0.2A 0.0 0.1 0.9(a) Describe the top down value-added strategies for active bond management.(b) Describe the corporate bond sector selection strategies.(c) Calculate the expected two-year horizon spread over Treasuries for a AAA-ratedbond.Show all work.Course 6: Spring 2003 - 2 - GO ON TO NEXT PAGE2. (5 points) You are given the following:Probability One Year ReturnStock X0.600.200.2010%5%-10%Stock Y0.750.2520%-20%the investor has a one-year horizonmargin requirement on short sales: 50%an investor ' s account with a broker currently holds: number of shares of XYZ stock: 500s 0.02t 1 yearRb2ga 0.4(a) Describe the key characteristics of this model.(b) Calculate the value of qb0g

using the Hull and White approximation. (c) Calculate the value of  $p_2$  at  $t=0$ . (d) Calculate the value of a one-year cap with a notional amount of 100 and a strike interest rate of 9.5%. Show all work.

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