3) The convexity of the 3 securities is given by the following formula: ((o) = 2 cie sili (Ti)2 1=1 - Price (0) A simple numerical application (Supyler) Convexity-partfolio(0) = 18.29 Convexity - bond 1 (0) = 41.47 Convexity - bond 2 (0) = 17.06 b) Using the formula in the course, we need that $\frac{d}{ds} \left(\prod(s) + 9_1 H_1(s) + 9_2 H_2(s) \right) |_{s=0} = 0$ d2 (n(s) + 91 H2(s) + 92 H2(s)) |s=0=0 What This system has the following solution: $(92) = (-D_{H_1} H_2(0) - D_{H_2} H_2(0)) (-C_{\Pi} N_0)$ with Portfolio being 17, Bond 1 Hz

and Bond 2 Hz