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we can observe that: x when T > 0 , clo T) > 0 the higher the leverage is, the higher the credit spread is. \* concerning signa, the higher the volahely is, the higher aedit spread is c) lev's introduce: f(T) = @(d2(T)) , Vee nt & (-d,(T)) Since f(0) = 1 gad c(0,T) = -log(f(T)) we have:  $c(0, \tau) = \frac{\log(\frac{1}{2}(\tau)) - 0}{\tau - 0} - \frac{\frac{1}{2}(\tau)}{\frac{1}{2}(\tau)}$ We also have: f'(T) = d'2(T) \$ (d2(T)) + 7 80 0 \$ (-d,(1)) - 10 en d'(T) \$ (-d,(T))  $d_1(T) = n + \frac{1}{2} \nabla^2 + \frac{1}{\sqrt{T}} \qquad 100$ d, (1) ~ leg Vo. 1  $d_2'(\tau) = h - \frac{1}{2} G_2^2 \frac{\Lambda}{\sqrt{\tau}} \xrightarrow{\tau \to 0} \infty$ dr (T) N By Va . 1 700 1 0 =) (de(7)) 770 1 ₫ (d, (n)) → 0 And \$ (de(T1) NO 0.

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