UTA ID: 100 22468218 NISARCE Kachnig Manes on-3 find the suntime of ausority mathematerally AND SO NOTE OUTER THIS NAME T(N) = 1 + & + & & + & & & 1 = 1 & 2 = 1 Jus = 1+(n+1) custus + ns L(N) = 5 +3 N + 3 N 5 In sit Mub code. 3. Finz poly namials that we appear ans gown founds on your curve from #2 Ars =5 Big-0=) the upper bound on gruph snown by the chren dusnes line, union slightly exceeds the fitter curu Big-omegas) so this represent the lower Bound on time complecity

so at grower attents any ruticing W. repest to n so recur) 6 1379 theta: since both the APPER une lower bounds are quadratic and 66 crosery conon the actual timing duty. 6 suntine is o (n2). 6 4.) In gitnub x = fens • X21; 1211 for 3=11m fo/3=1,m • X = X + 1; 154126 u.) will this increase now long it takes the alidavitum to van • -Ars ses the mostified function will a c Luke signity more time to run péconse of british 15 j42 ; mithier e

inner 1000, prouguer, tuis opportion is constint tony ocio, and since 4's ex cutil some time us the other opening. will it effect your results from #I so it will not effect the results as the time bonance will remain the same D(N2) So the curi tierry 2005 not ciffeet the complexity.