

Id-(2-a) = 8 181 non-degenerate (at least for 30) the determinant & has rts outsolute strictly bigger than Zero, Say Paer than Some constant 6>0. Consideration, by rotation she coordi. (NOT Change the Hessian) 80 that 31 =0 and reduce the problem so laver dimensional case. Interested Student Can Any Ao Prove shis by techiques from Dinear alsebra. thus, we can apply the "square root" law from from the theory of oscillatory Integrals.

of the phase function out the cliffical point so is Combine Abele Awo points fives the they (C) this can be decked as in (B). but with . Some gradient

(2) this follows from a consordino argument, a sime she boundedness of the Fourier transform of the Remel is naturally true. (3). In Substitutes the ternel asy. (1).(b). to verify the condition in the theorem.