ASSIGNMENT

- 1. State criteria in terms of Hessian matrix for convexity.
- State criteria in terms of Hessian matrix for quasi convexity.
- **3.** Using bordered Hessian matrix, when function is said to be concave?
- **4.** Is function $z = x^4 + y^4$ concave?
- 5. How bordered Hessian matrix is constructed?
- **6.** Is $z = (x + y)^{1/2}$ convex?