Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the 4 first terms of Taylor Series expansion for *f*(*x*) around point *x*0.
2. Arbitrary function *f*(*x*)
3. *f*(*x*)= sin(*x*)
4. *f*(*x*)= sinh(*x*)
5. *f*(*x*)= ln(*x*)
6. Continue. A sequence {*xn*} converges to *L* at least linearly means that …
7. The machine epsilon is defined as …
8. A norm of a vector, , is a real number such that
9. 
10. 
11.  if and only if *f* = 0.

Is everything correct here?

1. Name the norms you know.

(Please turn over)

1. What is the condition number of a well-posed problem?
2. Can you formulate the Equivalence Theorem?