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

1. A sequence {*xn*} converges to *L* quadratically means that …
2. A norm of a vector, , is a real number such that
3. 
4. 
5.  if and only if *f* = 0.

Is everything correct here?

1. Name the vector norms you know.
2. An induced matrix norm is defined as
3. Continue for a matrix A:



1. The condition number, *κ*(**A**), for a system of linear algebraic equations, **Ax** = **b** is defined as