

Homework # 21.

Read pp. 89 - 99.

Need to know: Definitions of compact set, bounded set, open cover, finite subcover.
Statements of theorems 3.3.4, 3.3.5, 3.3.8.

Do the following problems.

1. Prove that if the set K is closed and bounded, then K is compact.
2. Prove that if the set K is compact, then K must be closed.
3. Do # 3.3.1 and 3.3.2.