MATE 4052 assignment 3

13. Exercise 1.23.
14. Exercise 1.24.
15. Exercise 1.27.
16. In the proof of theorem 1.5, we used the fact that if the set A is closed in E, then the set $\Phi^{-1}(A)$ is closed in R^n. Prove this fact. Hint: a set is closed if its complement is open. Note that our Φ corresponds to Φ^{-1} in Coleman.