Chapter 7, problems 45, 51, 52, 65, and the following problems:

**Problem 1.**
Is the function \( u(z) = \frac{1}{(1+|z|^2)^2} \) subharmonic in \( \mathbb{C} \)? in \( D(0, 1) \)? in \( D(10, 1) \)?

**Problem 2.**
Let \( h(z) \) be a \( C^2 \) function in a neighborhood of the closed unit disc. Prove that inside the unit disc \( h \) can be represented as a difference of two subharmonic functions.

**Problem 3.**
Let \( K \subset \mathbb{C} \) be a compact set. Prove that \( u(z) = -\log(\text{dist}(z, K)) \) is a subharmonic function in \( \mathbb{C}\setminus K \).