

EE32a Signals, Systems, and Transforms
November 14, 2001

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Homework Assignment 6
Due 9am, Wednesday November 21, 2001

Reading: OW2, Chapter 9, Sections 9.1–9.7 except 9.4.
Handout “Some ROC Theory for Laplace Transforms”

Problems to Hand In:

Problem 1. With σ_R and σ_L as defined in eqs. (4) and (5) of the handout on Laplace transforms, is it possible for $\sigma_L < \sigma_R$? If the answer is *no*, give a proof. If the answer is *yes*, give an explicit $x(t)$ which exhibits this phenomenon.

Problem 2. OW2, Problem 9.21, parts (a), (c), and (e).

Problem 3. OW2, Problem 9.22, parts (a), (d), and (g).

Problem 4. OW2, Problem 9.30.

Problem 5. (This counts!) BDS, Problem 9.1, parts (a)–(c), pp. 160–161.