

**HOMEWORK #4**  
**Due at the start of Class on Thursday 11/03/05**

**Readings:**

1. Read sections 12.6 through 12.10, 13.2.2, 13.2.7-9, and 13.3.3. Review other sections as necessary.

**Problems:**

1. Problem 12.11.
2. Problem 13.3
3. Problem 13.10
4. Problem 13.23. For this problem, use the expression you derive to compute the TR that achieves maximal contrast between gray and white matter (assume the T1 values in Table 12.2). You may assume that the tissues have the same proton density.
5. Problem 13.28