

Problem Set 3

Due: Tuesday, September 30, 2014

Readings: Chapter 3 of [BT] except Section 3.6.

(Starred problems are harder than the rest, so it is a good idea to start from the rest)

Problem 1: Exercise 3.3 of [BT]

Problem 2: Exercise 3.12 of [BT]

Problem 3: Exercise 3.13 of [BT]*

Hint: In (d) use the result in (a).

Problem 4: Exercise 3.18 of [BT]

Hint: For part (c) consider Example 3.8 of [BT].

Problem 5: Exercise 3.20 of [BT]

Hint for part (b): Note that the rows $1, \dots, m$ of the tableau correspond to the system of m equations $\mathbf{B}^{-1}\mathbf{Ax} = \mathbf{B}^{-1}\mathbf{b}$.