ST552, Homework 2

Due Wednesday, Sep 25, 2013

- 1. JM 2.11 (p32)
- 2. JM 2.19 (p33). Read the paragraph preceding Exercise 2.17.
- 3. JM 2.20 (p33)
- 4. JM 2.21 (p34)
- 5. JM 3.6 (p65)
- 6. JM 3.7 (p65)
- 7. JM 3.11 (p67)
- 8. The Hadamard product between two matrices is defined as the elementwise multiplication. That is $C = A \circ B$ has elements $c_{ij} = a_{ij}b_{ij}$. Show that if $A, B \in \mathbb{R}^{n \times n}$ are positive semi-definite, then their Hadamard product is positive semi-definite.