## Homework 13*

Starred exercises to be turned in next Thursday

Announcement: The exam has been rescheduled to 3 May (morning). Its place will be announced on this website. You can either participate in the full exam or in part B.

Exercise 13-1* Prove that the first formula on p. 116 (i.e., Jensen's inequality) follows from the last formula on p. 115. Hint: Prove first that for $g$ as in Theorem 6.1.1 the set $\left\{(\alpha, y) \in \mathbb{R} \times \mathbb{R}^{N}: \alpha \leq g(y)\right\}$ is closed and convex.
Exercise 13-2* Prove parts $(i v)-(v)$ of Theorem 6.2.2. Prove also parts $(i)-(i i)$ for $p=\infty$.

Exercise 13-3 = Exercise 6.1.6
Exercise 13-3 = Exercise 6.2.20
Exercise 13-3 = Exercise 6.2.22

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[^0]:    *Re: Measure and Integration, 15 April, 2002

