

HW 6 Math 523a Fall 2016

Due Fri., Nov. 18, 2016

1. Folland 46 in Section 2.5.

2. Folland 57 in Section 2.6.

3. Let $f \in L^1(\mathbb{R}^n, m^n)$ and $t \in \mathbb{R}^n$. Show that $g(x) = f(x+t) \in L^1(m^n)$ and

$$\int f(x)dx = \int f(x+t)dx.$$

4. Folland 2 in Section 3.1. (try also Folland 8, 9 in Section 3.2 but do not turn in.)

5. Folland 13 in Section 3.2