

Autumn 2015
CS448J: CASVC 2015 @ Stanford
Solutions of Exercise Sheet 6: Fourier Analysis

Exercise 1 (*Fourier Analysis*)

3. (Hint: Integration by parts.)

4. The relation

$$\mathcal{F}(f^{(k)})(\omega) = (2\pi i\omega)^k \mathcal{F}(f)(\omega)$$

for $k \in \{1, \dots, n\}$ follows by induction.

6. (Hint: Integration by substitution.)