Real Analysis II, Prof. Gutiérrez, L^p-spaces
Week of February 19, 2009

References are from Wheeden and Zygmund's book.

1. Let $c < a < b < d$. Show that if f is $C^1[a, b]$ with $f(a) = f(b) = 0$ and we define $g(x) = f(x)$ for $x \in [a, b]$ and $g(x) = 0$ for $x \in [c, d] \setminus [a, b]$, then g is absolutely continuous in $[c, d]$.

2. Problems 5 and 8, p. 143.

3. Problems 11, 12, 13, and 16, p. 144.