

EECS 360
Homework 4

1. Convolve $\text{rect}[\frac{t-15}{2}]$ with $\text{rect}[\frac{t-10}{2}]$.
2. Convolve $\text{rect}[\frac{t+15}{2}] + \text{rect}[\frac{t-15}{2}]$ with $\text{rect}[\frac{t+10}{2}] + \text{rect}[\frac{t-10}{2}]$. Plot the result. (Hint: see problem Chapter 5-5c)
3. Convolve $x(t) = t^2 \text{rect}(t - .5)$ and $h(t) = u(t)e^{-t}$.

Chapter 5

26.

28. a, b

35.