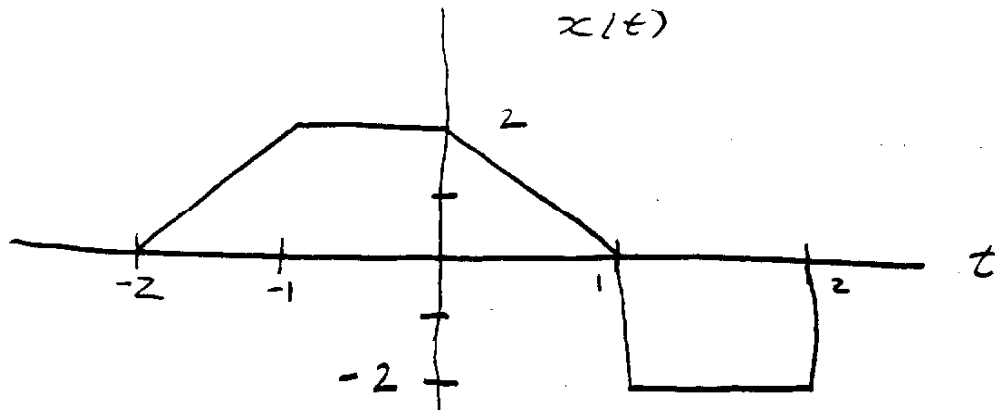


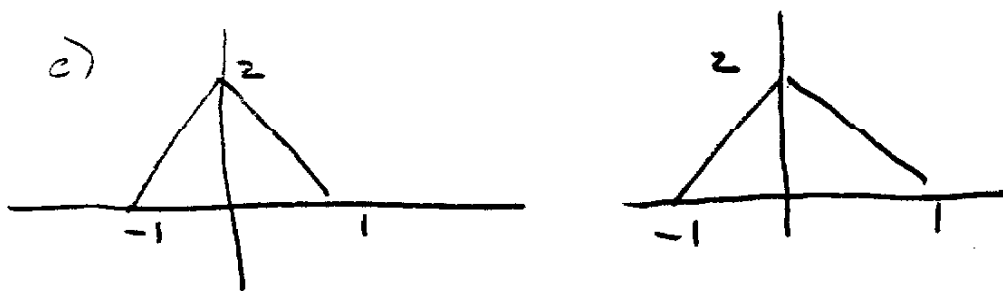
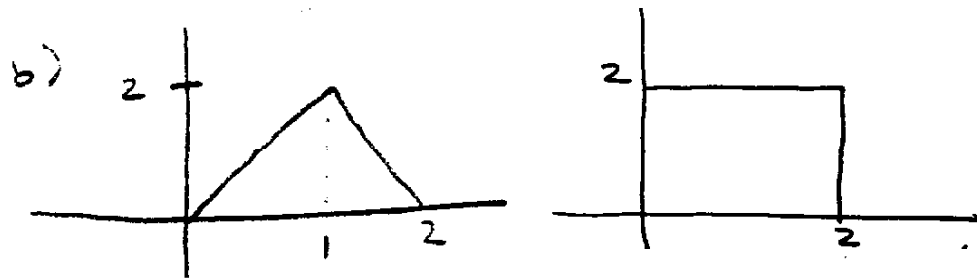
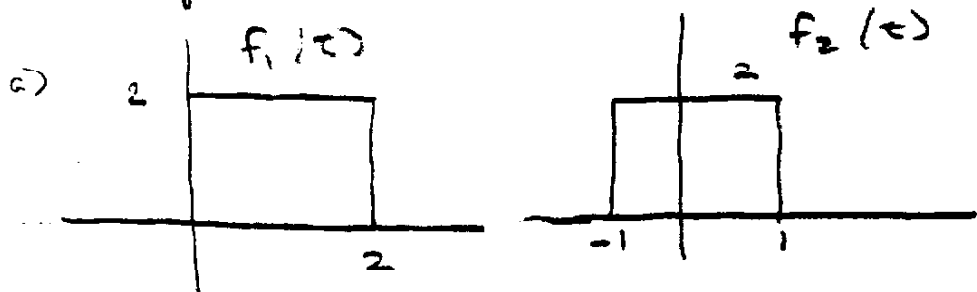
1. Consider the following function



Sketch the following:

- | | |
|---------------------------------|------------------------------------|
| a) $x(-t)$ | f) $x(t+3)$ |
| b) $-x(t)$ | g) $x\left(\frac{t-3}{4}\right)$ |
| c) $x(3t)$ | h) $x\left(\frac{t+3}{4}\right)$ |
| d) $x\left(\frac{1}{2}t\right)$ | i) $-x\left(\frac{-t-3}{2}\right)$ |
| e) $x(t-3)$ | j) $-x(3[t-3])$ |

2. Sketch the function that results from convolving each of the following:



3. Draw

- a) $u(t) - u(t-3)$
- b) $u(t) + r(t)$
- c) $r(t/3)$
- d) $\text{rect}(t-3)$
- e) $e^{-3t} u(t)$
- d) $u(\frac{1}{2}t + 7)$