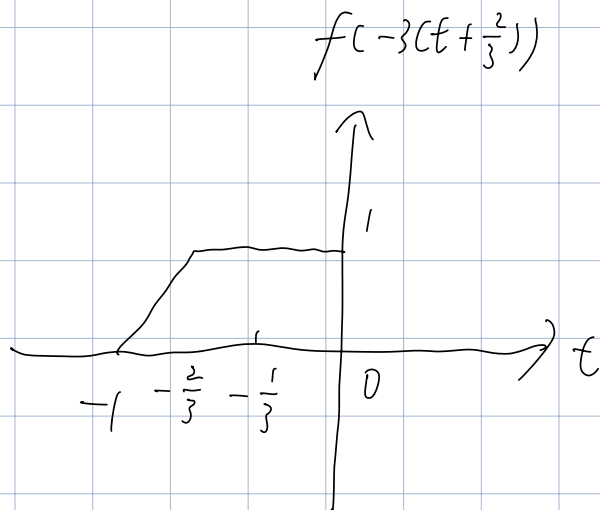
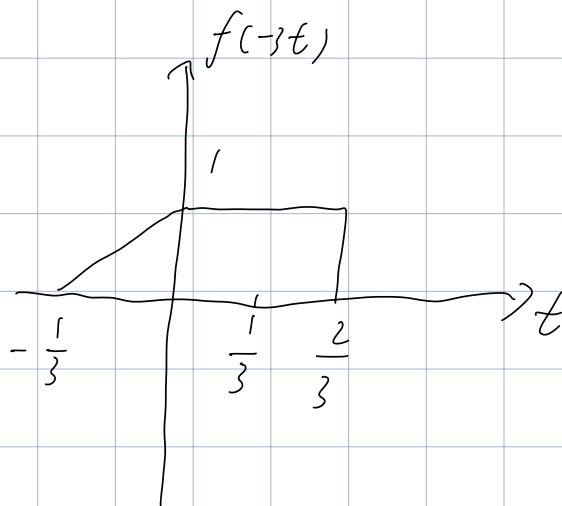
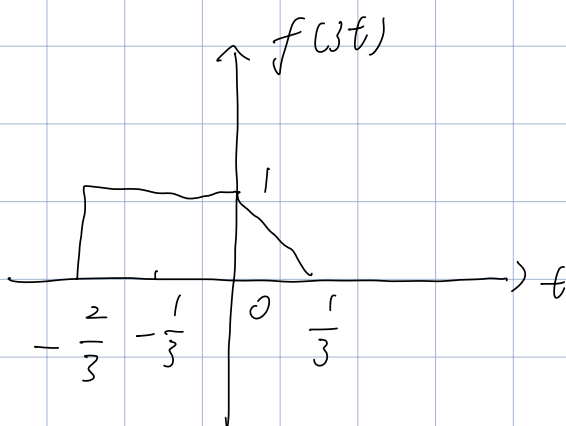
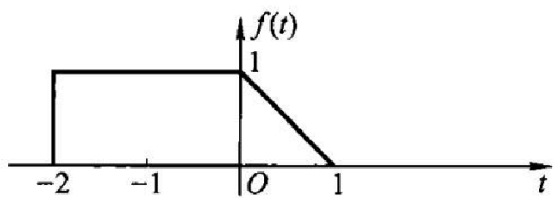


Signal

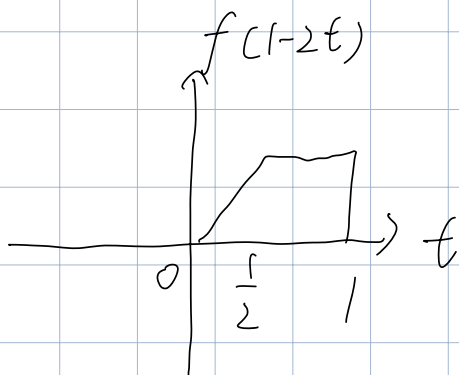
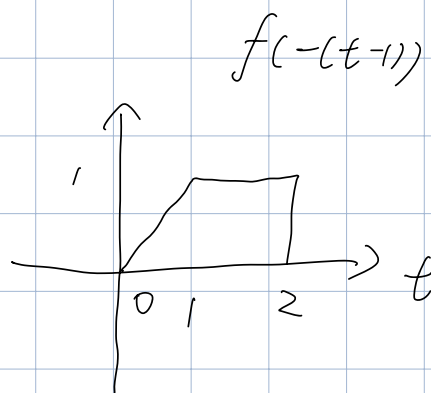
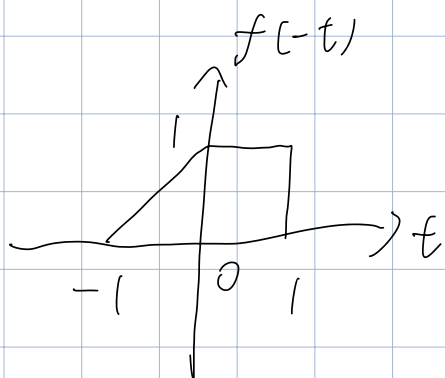
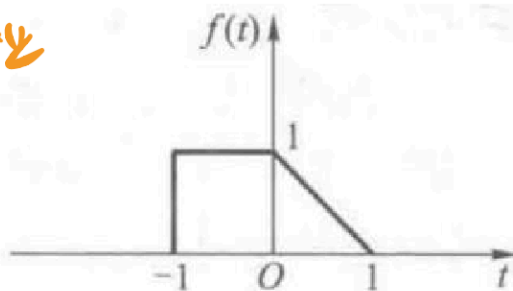
题设 (郑君里例1-1) : 求 $f(-3t-2)$

作业



题设 (管致中例1-2) : 求 $f(1-2t)$

作业



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$$(1) \int_{-\infty}^{+\infty} \sin(t) \cdot \delta(t - \frac{\pi}{4}) dt$$

$$(2) \int_{-2}^{+3} e^{-5t} \cdot \delta(t-1) dt$$

$$(3) \int_{-4}^{+6} e^{-2t} \cdot \delta(t+8) dt$$

$$(4) \int_{-\infty}^{+\infty} e^{-t} \cdot \delta(2-2t) dt$$

$$(5) \int_{-2}^{+2} (t^2 + 3t) \cdot \delta(\frac{t}{3} - 1) dt$$

$$(6) e^{-4t} \cdot \delta(2+2t)$$

1. 原式 = $\sin \frac{\pi}{4} = \frac{\sqrt{2}}{2}$

2. 原式 = e^{-5}

3. 原式 = 0

4. 原式 = e^{-1}

5. 原式 = 0

6. 原式 = $e^4 \delta(2+2t)$