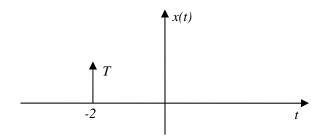
Applied Signal Processing and Computer Science

WS 10/11(Email: xiaoxiang.zhu@bv.tum.de)

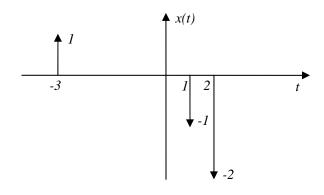
Solution 2: Delta and Step Functions

1.1 Plot the following signals:

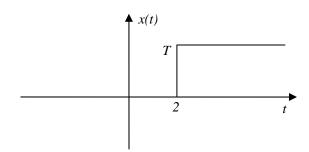
$$ightharpoonup x(t) = T\delta(t+2)$$



$$ightharpoonup x(t) = \delta(t+3) - 2\delta(t-2) - \delta(t-1)$$



$$ightharpoonup x(t) = T\gamma(t-2)$$



$$\mathbf{1.2} \int_{-\infty}^{\infty} u(t)\delta(t-t_0)dt = \int_{-\infty}^{\infty} u(t_0)\delta(t-t_0)dt = u(t_0)\int_{-\infty}^{\infty} \delta(t-t_0)dt = u(t_0)$$

1.3

$$\triangleright$$
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