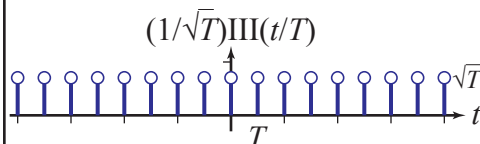
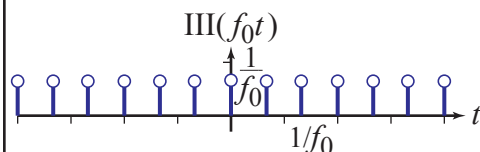
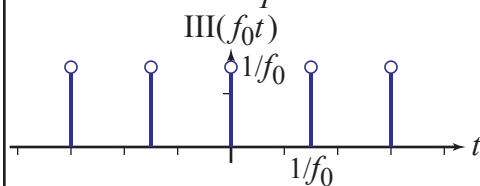
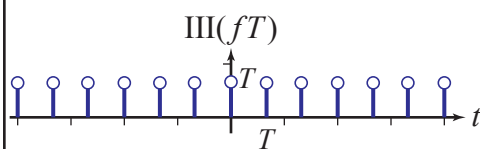
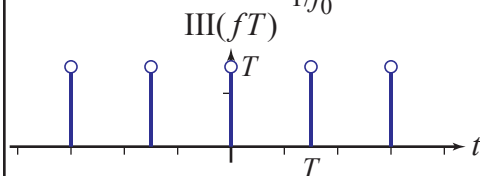
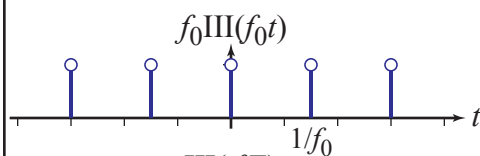
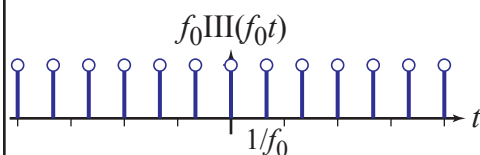
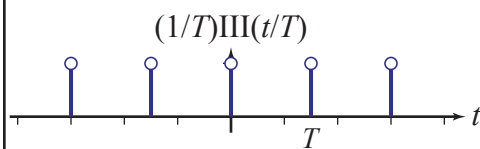
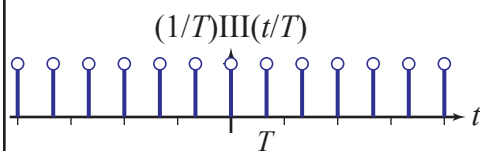
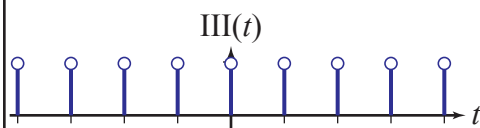


DSP ROSETTA STONE METHOD

IMPULSE TRAIN OR COMB FUNCTION

Fourier transform

TIME SCALING PAIRS



$x(t) = \int_{-\infty}^{\infty} X(f) e^{j2\pi ft} dt$

generic impulse train

Unit height impulses rapid

Height $1/T$ impulses high freq

Unit height impulses slow

Height $1/T$ impulses low freq

Unit height impulses rapid

Height f_0 impulses high freq

Unit height impulses slow

Height f_0 impulses low freq

Height T impulses

Unit height impulses

Height T impulses

Unit height impulses

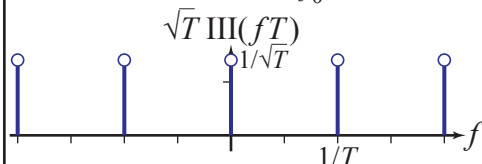
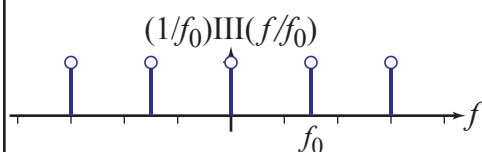
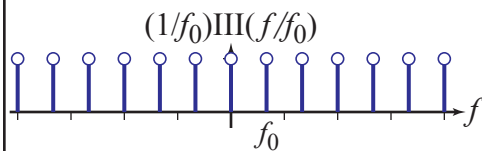
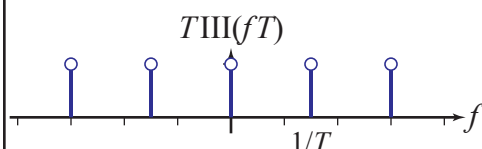
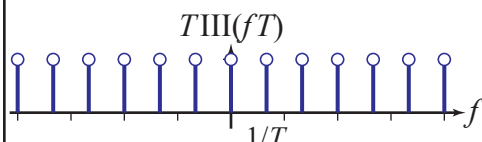
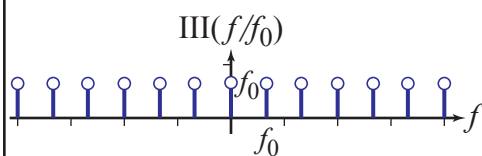
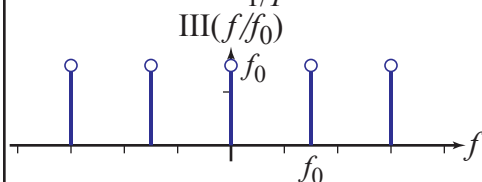
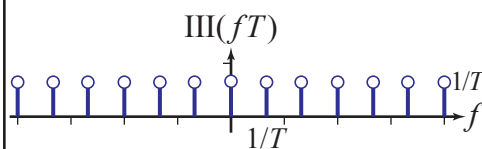
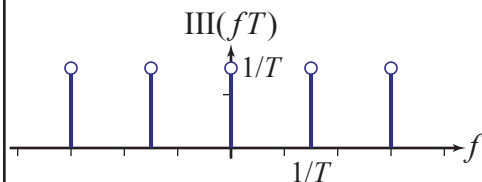
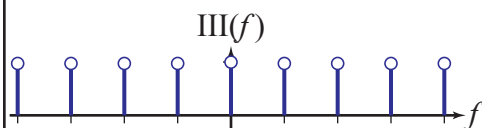
Height $1/f_0$ impulses

Unit height impulses

Height $1/f_0$ impulses

Unit height impulses

symmetric scaling



$X(f) = \int_{-\infty}^{\infty} x(t) e^{-j2\pi ft} dt$

