

independent variable  $\mathbf{x}, t$  (master set)

dependent variable  $f(\mathbf{x}, t)$  (slavery set)

function of time  $f(t)$

function of space  $f(\mathbf{x})$ , 1-D, 2-D, 3-D

function of space and time  $f(\mathbf{x}, t)$

unit step function

jump function,  $\tan^{-1}x$ , Heaviside function

impulse function

Dirac-delta function

symmetric and antisymmetry

function decomposition, unique, loading pattern

trivial function

even or odd

filter function

inverse function, one to one

real or complex

function generator