UNIT 2 FOURIER SERIES
DIRICHLET'S CONDITION

Dirichlet's Condition :

Any function $f(x)$ can be developed as a Fourier series provided

i) $f(x)$ is periodic, single valued and finite

ii) $f(x)$ has a finite number of discontinuity in any one period

iii) $f(x)$ has a finite number of maxima and minima.

tanx has infinite number of discontinuit tanx cannot be developed as fourier series