A map of vector calculus

Vector fields

Gradient vector field

Integrals

Derivatives

Surface integral

Line integral

Divergence

Curl

Conservative vector fields

Potential functions

Triple integral

Divergence Theorem

Stokes' Theorem

FTC for line integrals

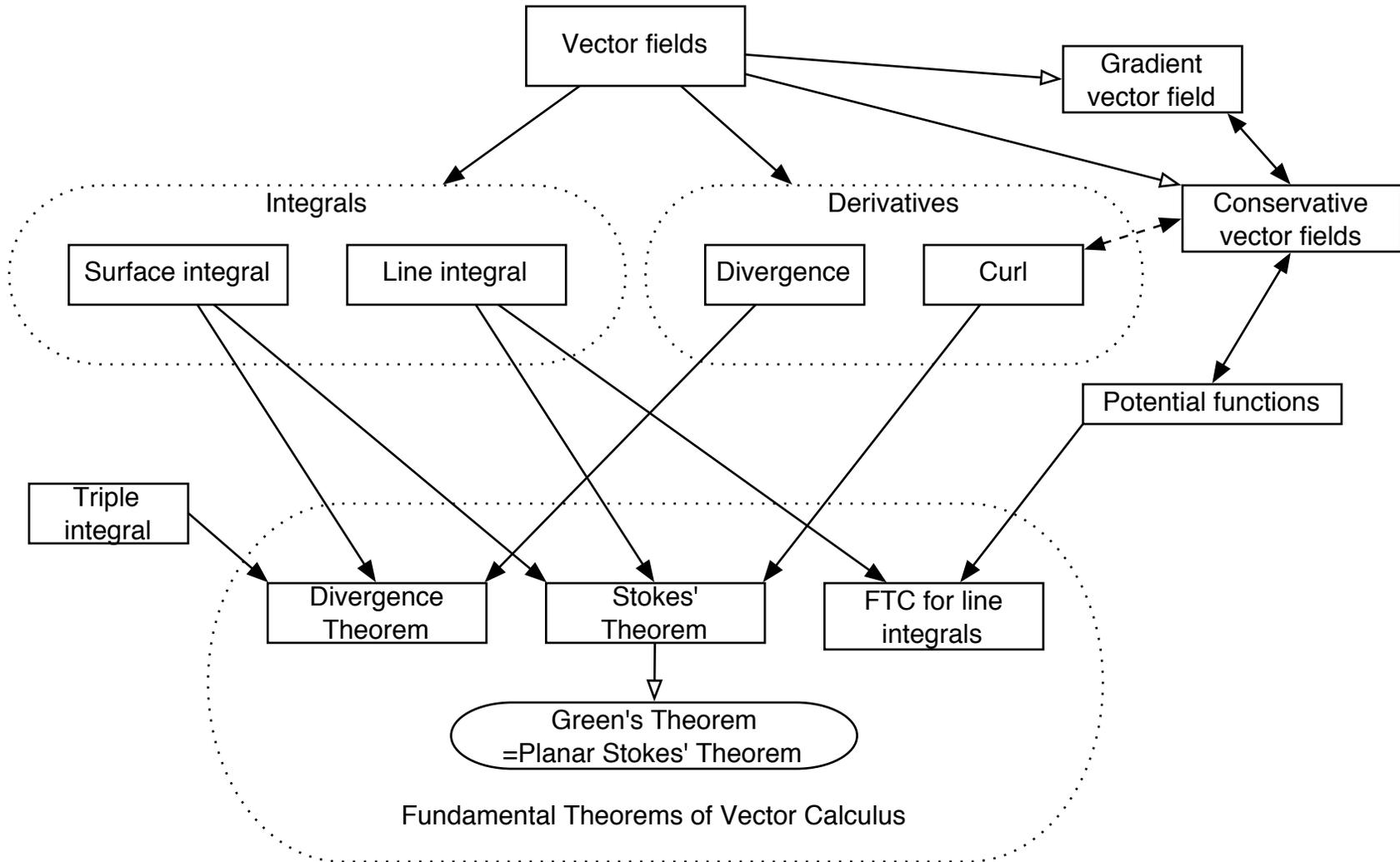Green's Theorem
=Planar Stokes' Theorem

Fundamental Theorems of Vector Calculus

Key: Only for planar fields   = is a special case of