A very brief summery of vector calc in IR2 (f,3) - gx - fy Scalar funtion Vector fields our Scalar funtions on R?

FTC for line integrals

(Green's Thre (A)P-(A)P= 16.4V  $\int f dx + g dy = \iint (g_x - f_y) dA_1$ oriented Signed points 2d regions wl (74)=0 Types of integrals Surface integrals Line integrals If follo s weighted surface once a ( Fds Flat space SS fdA marea weighted anderg Th ) fdx +gdy SSS f dV #h volume J. F.dn circulation/work S flux 10 = (1 x m / dA ds = | 1 (+) | dt dA = dx dy dr= 11(+) dt dn= rux rr dA dV = dx dy dz (case ful w/ orientation) also polar, spherical count.