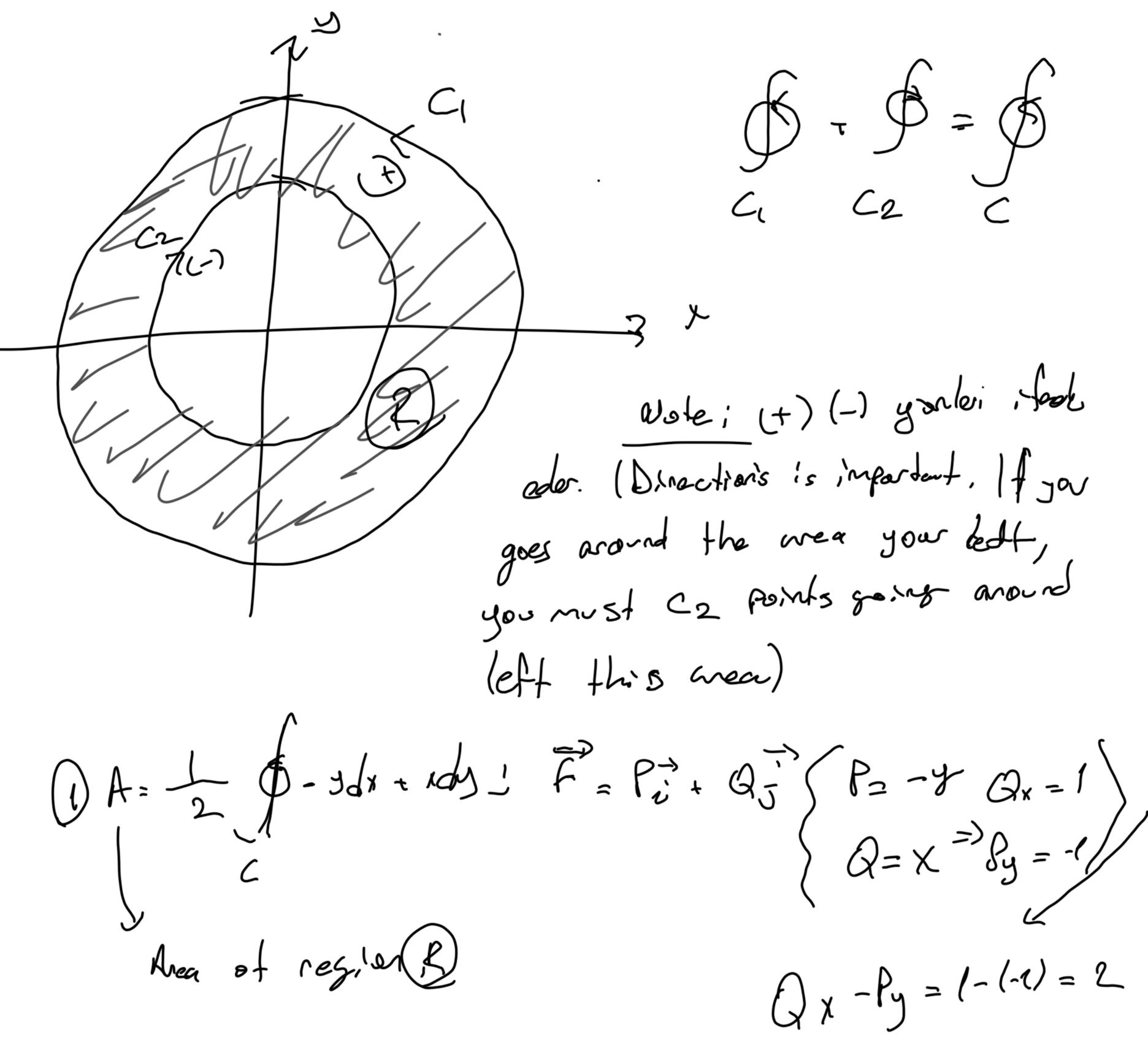
Renok: Green's Theorem is valid for regions that are not simply connected Proes1 C: C, U C2UC3UC4 PIT = Polx+ Qdy = S(dQ - dP) has

C D (Treen's Theorem Vote; Dodon essis: du se 2 sakilde de Jepilab. In.

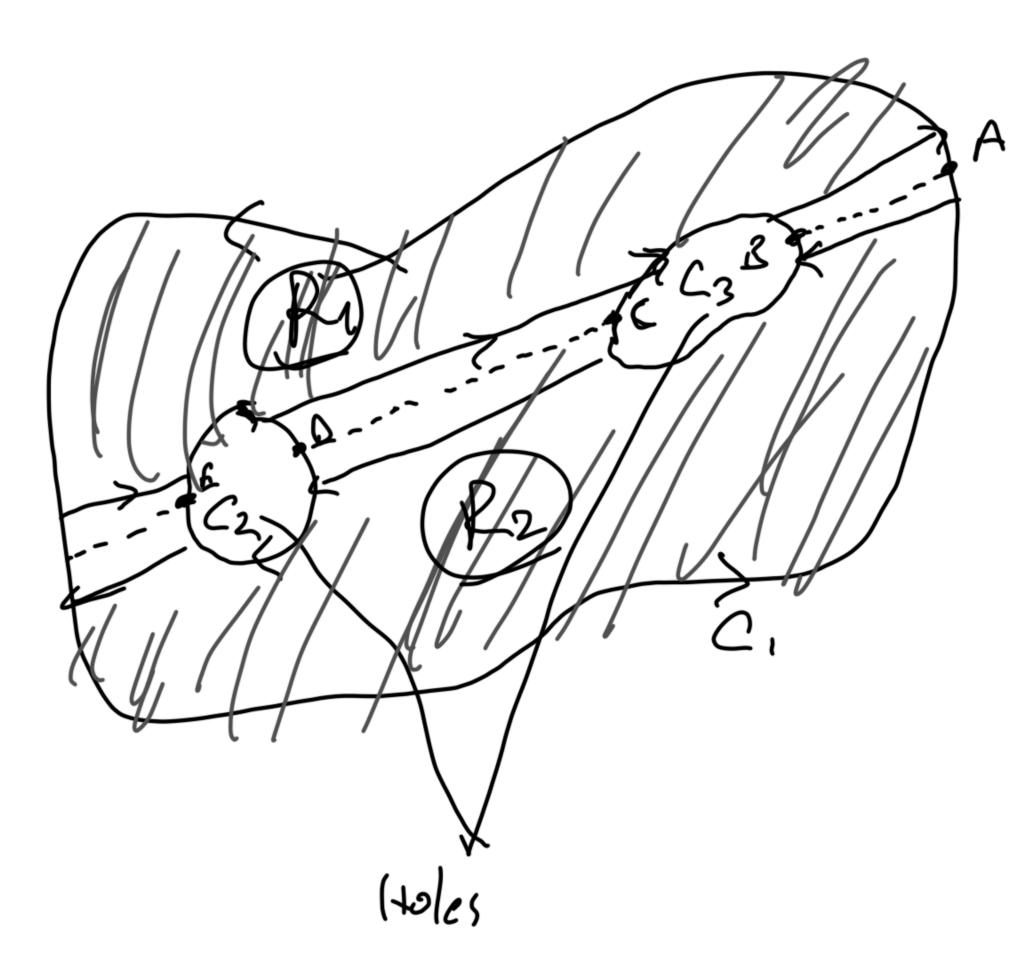
03. AC 2 Lec13



Fenal. The cure is traversed counterclockwise and is said to be positively oriented if the region it encloses is always to the left of an object as it moves is always to the left of an object as it moves along the path. Otherwise, it is traversed clock wise and negatively evented. The line integral of a veder field regatively evented. The line integral of a veder field of a large the orientation.

Regions Many Holes

Green's theorem holds for a region R with any finite number of holes as long as the bounding curies are smooth, signife and closed and we integrate over each component of the boundary in the direction that beeps R an our immediate left as we go along.



Multiply Connected

R= RURZ C=C,UCz VC3

Fage 53 WLSN notless ballete

la Sikk, duzvdan hæsgdaynis.

bsikh grød kilmark hesplagens.

Somirin 35er Mali guzulnis

om dræltdedi

10. somme green 1 hearn vyglananas. $\int_{\zeta_{1}}^{\zeta_{2}} = \int_{\zeta_{1}}^{\zeta_{2}} + \int_{\zeta_{2}}^{\zeta_{3}} + \int_{\zeta_{3}}^{\zeta_{3}} + \int_{\zeta$ arcer's (haveni geges: 30h. dizlam es i's: yoktar.