

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
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DEPARTMENT OF MATHEMATICS

COMPLEX TNTEGRATION 2410000
Cauchy's integration theorem: If a function $f(z)$ is analytic and its
derivative f'(z) is continuous with all points
inside and on a simple closed curve c, then
$\int_{C} f(z) dz = 0.$
Cauchy's integral formula:
If f(z) is analytic inside and on a
simple closed curve c and 'a' be any point inside c, then
$\int \frac{f(z)}{z-a} dz = a\pi i f(a).$
Where integration being taken in the
anti-clockwise direction around C.



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