

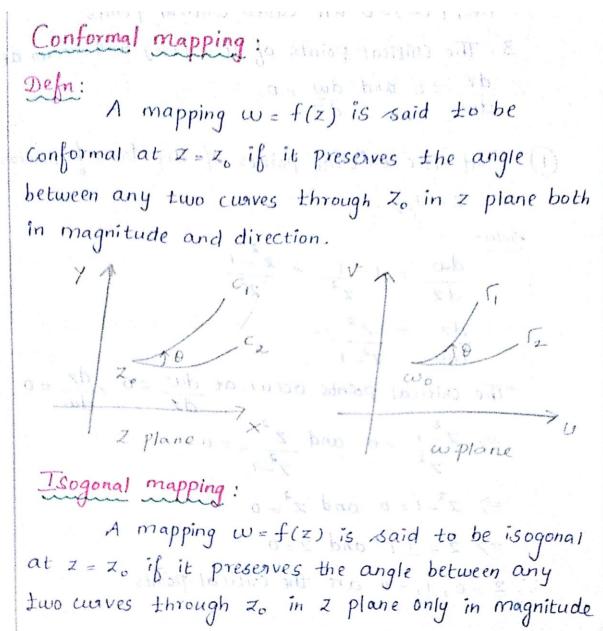
# SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai
Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & Company (B.E - CSE, EEE, ECE, Mech & Company);
Accredited by NBA (B.E - CSE, EEE, ECE, Mech & Company); B.Tech.IT)

COIMBATORE-641 035, TAMIL NADU

#### **DEPARTMENT OF MATHEMATICS**





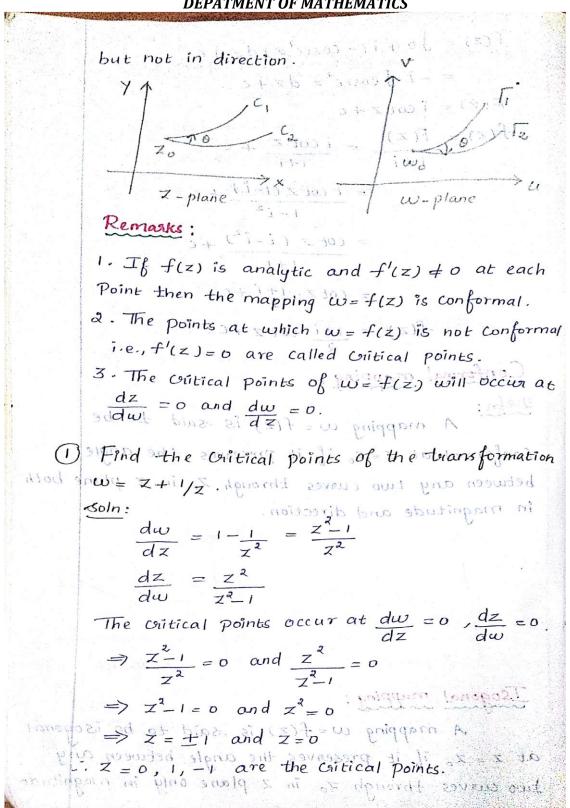
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### **DEPATMENT OF MATHEMATICS**





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#### **DEPARTMENT OF MATHEMATICS**

Find the Critical points of 
$$w^2 = (z - \alpha)(z - \beta)$$
.

Soln:

 $w^2 = (z - \alpha)(z - \beta)$ 
 $2w dw dw = (z - \alpha) + (z - \beta)$ 
 $dw = (z - \alpha) + (z - \beta)$ 
 $dw = \frac{2w}{2w}$ 
 $dw = \frac{2w}{2w}$ 
 $dw = \frac{2w}{2w}$ 

The Critical points occur at  $dw = 0$  and  $dz = 0$ .

 $dw = \frac{2w}{2w} = 0$  and  $dw = 0$ 
 $dw = 0$