

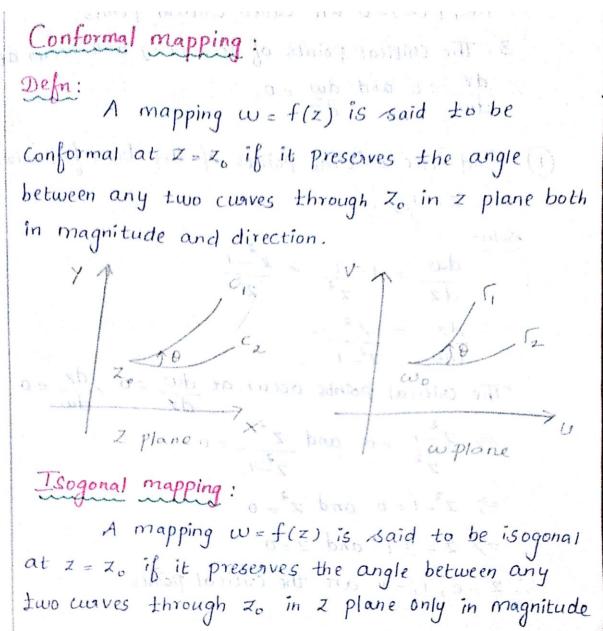
SNS COLLEGE OF TECHNOLOGY



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DEPARTMENT OF MATHEMATICS





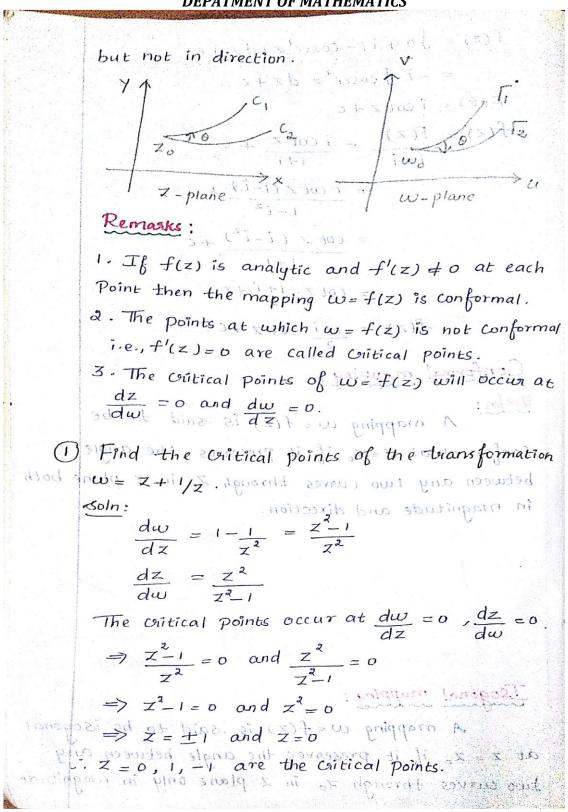
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DEPATMENT OF MATHEMATICS





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DEPARTMENT OF MATHEMATICS

Find the critical points of
$$\omega^{2} = (z - \alpha)(z - \beta)$$
.

Soln:

$$\omega^{2} = (z - \alpha)(z - \beta)$$

$$\omega \omega \frac{d\omega}{dz} = (z - \alpha) + (z - \beta)$$

$$\frac{d\omega}{dz} = (z - \alpha) + (z - \beta)$$

$$\frac{d\omega}{dz} = \frac{2\omega}{2\omega}$$

$$\frac{dz}{d\omega} = \frac{2\omega}{(z - \alpha) + (z - \beta)}$$

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$$\frac{d\omega}{dz} = 0 \text{ and } \frac{d\omega}{dz} = 0 \text{ and } \frac{dz}{d\omega} = 0$$

$$\Rightarrow 2z - \alpha + \beta$$

$$\Rightarrow 2z = \alpha + \beta$$