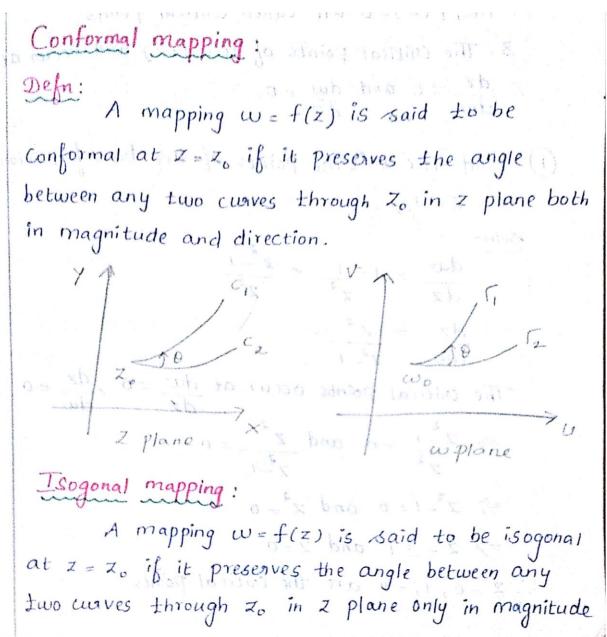


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DEPARTMENT OF MATHEMATICS





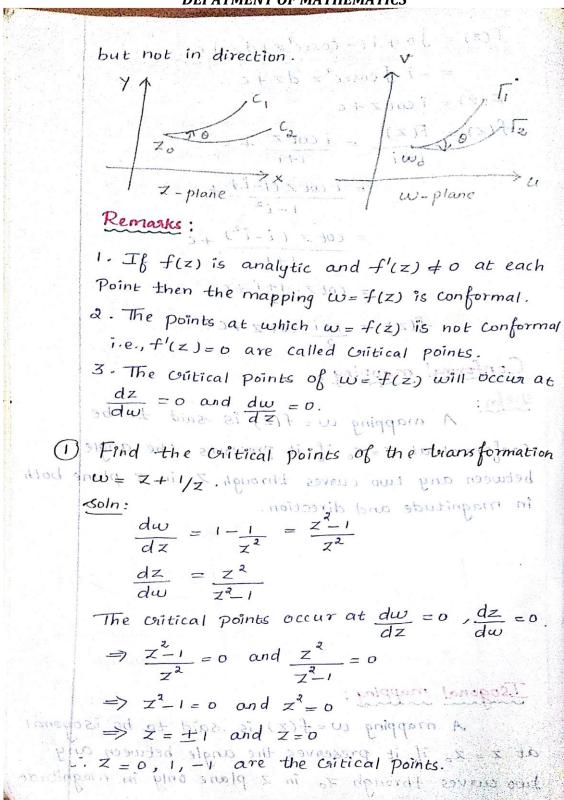
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DEPARTMENT OF MATHEMATICS

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

Soln:

 $\omega^2 = (z - \alpha)(z - \beta)$
 $\omega \omega d\omega = (z - \alpha) + (z - \beta)$
 $\frac{d\omega}{dz} = \frac{(z - \alpha) + (z - \beta)}{2\omega}$
 $\frac{d\omega}{dz} = \frac{2\omega}{(z - \alpha) + (z - \beta)}$
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 $\frac{d\omega}{dz} = 0$ and $\frac{d\omega}{dz} = 0$
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