Intervally - 02

M4(18MAT41)

Shahul Harred. S IEN18cSo977 CSE 'A'Sec

bet w = 02+6

C549

Z=1, w=i => i=a+b

9+6+2 cold => 0+6-20-20=0

Z=i, w=0, 0=aitb cita

aith ->3

22-1, W2-2 -3-1=20+b

-atb = ic-id => -atb - ic+id=0 -@

Now 8/2 0+B

A+b-ic-id=0 -d+b-ic+id=0

0=226- 08

b-2020 - (3)

met ent in stile su. @3@ ~3

92+ b+0c = 0

0a+ b-ic =0

Applying the stule of closs of in we have,

 $\frac{a}{\begin{vmatrix} 1 & 0 \\ 1 & -1 \end{vmatrix}} = \frac{a}{\begin{vmatrix} 1 & 0 \\ 0 & -1 \end{vmatrix}} = \frac{a}{\begin{vmatrix} 1 & 0 \\ 0 & -1 \end{vmatrix}}$

la

$$\frac{a}{a^{2}} = \frac{-b}{1} = \frac{c}{1} = \frac{b}{1} = \frac{c}{1} = \frac{b}{1}$$

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=> duo =0 & z =+1

dz

interprerependen w=z+1 in not conformal at

z =+1 & is analytic at Spary other point of

the z - plane.

11 2: reio & w:u + i v

w: u + i v = reio + 1 e i o

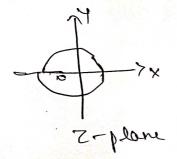
(u + i v) = (r + 1/2) 680 + i (r - 1/2) 8 i n o

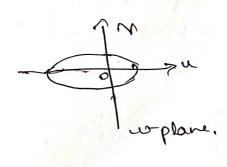
18.

Conte!: Eliminating 'd' b/w these Byn we get

Let 8 = 12, (\$1), where 12, is a constant. This supplements a whole controled out origin in the 2-plane.

This supresents an Ellepse boring carton at origin in the w-plane.

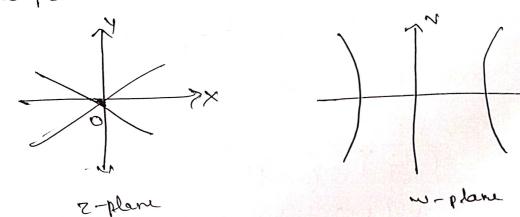




age 2: Elbrinating from Ego, un get

$$\frac{u^2}{\cos^2\theta} - v^2 = 4 - 3$$

Let 0 = K2, ushere K2 a constant, This preprisente a radial lines in the 2-plane.



Thus, The thangormation Z=1 thangorm ciorales with order origin to elephe having larber at origin of the staid himself believes and origin.

The notional ξ_{y}^{n} for jitting the stanight line years to one $\xi_{y} = a \xi x + nb$ $\xi_{xy} = a \xi x^{2} + b \xi x$

2n:56 Eyr 40 Eyx=364 Ex2=524 The normal so, n belowed 56a +86=40 & 524 a +566=364 .1. a = 0.6320.64 , b = 0.54 20.55 .1. Thusby substituting these values in y sant b we obtain the Egs ,

y=0.648c+0.55/1;

Jolland.

Exy = a & x 3 + b & x + h e - 0 Exy = a & x 3 + b & x 2 + c & x - 0 Ex2y = a & x 3 + b & x 3 + E c x 2 - 0

suf x2 x2 y x3 X 10 1 10 1 1 10 2 12 16 118 #6 1711 13 39 16 64 16 256 64 25% 5 19 95 ३५ भन् १३५ 025 En=15 8y=70 Exy=332 Exy=906 Ex3=225 Ex4=979 Ex2= 55

Gn () => to = 55a + 15b + 5c Gn () => 23a = 205a + 55b + 15c gn () => 979a + 205b + 55c

.: a = 0.3857 20.29, b= 0.4850 20.49, c = 9.4//..

Thus the Prequired Cerond probabala 19

J=0.89x² +0.49x +9.4 Also of x=6

Y=22.78//..

36