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	Scruhe	n con	pen Mo.	(W.S 1	(3)
	$z = (1 - 2ca^2a)$) +3ic	00		
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	Since Z & pully	Real	(91cm)		
	Im(z) =	•			
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		,			
	Z= 1+312+25	31			
	7 = -2 +253	,			_
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	1 - 1		2-355		
	Z -2+2 V	31°	-2- V31°		
	-2-	251			
	Z - 4-12	12		4.1	
	1 - 2-	25;			
	16	16			
	1 - 1 -i	J3 A	NE		
	2 - 8 -8	5.			
On 7-	$Z_1 = 2 - i$, $Z_2 =$	1+1			
**************************************	21+72+)				
	Z1-72 +i	*			
	= 1 2-1/11+1	41/			a.
	a-i-1-1	+7/			
		Table 1 to the second			
	= 4]				
	1-1-1				
	= Y_x 1+i1	= 4	t411-1	2+211 = 5	1+4
	1-1-1-1-1		+1 / 1		25 Aug
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$Z_{1} = Q - i \qquad Z_{2} = -Q + i$ $(i) Re \left(\frac{Z_{1} T_{L}}{Z_{1}} \right)$ $= Re \left(\frac{(Q - i)(-Q + i)}{Q + i} \right)$ $= Re \left(\frac{-Q + Q_{1}}{Q + i} + 2i - i^{2} \right)$ $= Re \left(\frac{-Q + Q + Q_{1}}{Q + i} + 2i - i^{2} \right)$ $= Re \left(\frac{-Q + Q + Q_{1}}{Q + i} + 2i - i^{2} \right)$ $= Re \left(-Q + Q + Q + Q + Q + Q + Q + Q + Q + Q +$		Topic:	D	ate.:		Page No. :	
(i) $Re\left(\frac{z_1\tau_L}{z_1}\right)$ $= Re\left(\frac{(\alpha-i)(-2+i)}{\alpha+i}\right)$ $= Re\left(\frac{-4+2i+2i-i^2}{\alpha+i}\right)$ $= Re\left(\frac{-3+4i}{\alpha+i} \times 2-i\right)$ $= Re\left(\frac{-6+3i+8i-4i}{2-i}\right)$ $= Re\left(\frac{-2+11i}{2-i}\right)$ $= -2 \qquad Ans$ (ii) $Trn\left(\frac{1}{z_1\overline{z_4}}\right)$ $= Irn\left(\frac{1}{2-i}\right)$ $= Irn\left(\frac{1}{2-i}\right)$ $= Irn\left(\frac{1}{2-i}\right)$ $= Irn\left(\frac{1}{2-i}\right)$ $= Irn\left(\frac{1}{2-i}\right)$ $= Irn\left(\frac{1}{2-i}\right)$		52	Muxon	Compun	No. (W.S. 1)	(1)
(i) $Re\left(\frac{z_1z_2}{z_1}\right)$ $= R_1\left(\frac{(x_1^2)(-x_1^2)}{x_1^2}\right)$ $= R_2\left(\frac{-y_1^2+z_1^2-z_1^2}{x_1^2}\right)$ $= R_1\left(\frac{-y_1^2+z_1^2}{x_1^2}\right)$ $= R_1\left(\frac{y_1^2+z_1^2}{x_1^2}\right)$ $= R_1\left(\frac{-y_1^2+z_1^2}{x_1^2}\right)$ $= R_1\left(\frac{y_1^2+z_1^2}{x_1^2}\right)$ $= R_1\left(\frac{y_1^2+z_1^2}{x_1^2}\right)$ $= R_1$	DN. 8	A Z = 2-i	2	= -2+i			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	a =	•					
$= \mathcal{A} \left(\begin{array}{c} (\mathcal{A}^{-1}) \left(-\mathcal{A}^{+} i \right) \\ \mathcal{A}^{+} i \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} -\mathbf{Y} + \mathcal{A} i + 2i - i^{2} \\ \mathcal{A}^{+} i \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} -3 + \mathbf{Y} i & \mathbf{y} \mathcal{A}^{-} i \\ \mathcal{A}^{+} i & \mathcal{A}^{-} i \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} -6 + 3i + 8i - \mathbf{Y}^{2} \\ \mathbf{Y}^{-} i^{2} \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} -2 + 11i \\ \mathbf{y}^{-} i \end{array} \right)$ $= -2 \text{Ans}$ $= \mathcal{A} \left(\begin{array}{c} \mathcal{A}^{-} i \\ \mathcal{A}^{-} i \end{array} \right) \left(\begin{array}{c} \mathcal{A}^{+} i \\ \mathcal{A}^{-} i \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} \mathcal{A}^{-} i \\ \mathcal{A}^{-} i \end{array} \right)$ $= \mathcal{A} \left(\begin{array}{c} \mathcal{A}^{-} i \\ \mathcal{A}^{-} i \end{array} \right)$	(i)	Re/ZIZZ			The state of the s		
$ \begin{array}{c} 2+i \\ = R_1 \left(-Y + 2i + 2i - i^2 \right) \\ = R_1 \left(-3 + Yi \times 2 - i \right) \\ = R_1 \left(-3 + Yi \times 2 - i \right) \\ = R_1 \left(-6 + 3i + 8i - Yi^{2} \right) \\ = R_1 \left(-2 + 11i \right) \\ = R_2 \left(-2 + 11i \right) \\ = -2 A_{DS} \\ = -2 A_{DS} \\ = Tm \left(-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$			the state of the s				
$ \begin{array}{c} 2+i \\ = R_1 \left(-Y + 2i + 2i - i^2 \right) \\ = R_1 \left(-3 + Yi \times 2 - i \right) \\ = R_1 \left(-3 + Yi \times 2 - i \right) \\ = R_1 \left(-6 + 3i + 8i - Yi^{2} \right) \\ = R_1 \left(-2 + 11i \right) \\ = R_2 \left(-2 + 11i \right) \\ = -2 A_{DS} \\ = -2 A_{DS} \\ = Tm \left(-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$		- 0. ((2°) (-9.5	11 - 7				
$= R_{1} \left(-\frac{1}{4} + 2i + 2i - i^{2} \right)$ $= R_{1} \left(-\frac{3}{4} + 4i \times 2 - i^{2} \right)$ $= R_{2} \left(-\frac{6}{4} + 3i + 8i - 4i^{2} \right)$ $= R_{1} \left(-\frac{1}{2} + 11i \right)$ $= -\frac{1}{2} A_{1} $ $= T_{1} \left(-\frac{1}{2} - \frac{1}{2} \right)$ $= T_{2} \left(-\frac{1}{2} - \frac{1}{2} \right)$ $= T_{2} \left(-\frac{1}{2} - \frac{1}{2} \right)$ $= T_{3} \left(-\frac{1}{2} - \frac{1}{2} \right)$ $= T_{4} \left$			/				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$,	1 2	 			
$= \mathcal{H}\left(\frac{-3+4i}{84i} \times \frac{8-i}{8-i}\right)$ $= \mathcal{H}\left(\frac{-6+3i}{4-i} + 8i - 4i^{2}\right)$ $= \mathcal{H}\left(\frac{-2+11i}{5}\right)$ $= -2 \text{Ans}$ $= \text{Im}\left(\frac{2}{2} \times \frac{1}{2}\right)$ $= \text{Im}\left(\frac{2}{4-i}\right) \left(\frac{2+i}{2}\right)$ $= \text{Im}\left(\frac{1}{5}\right)$ $= -2 \text{Ans}$			1-1	 			
$ \begin{array}{c} \left(\begin{array}{c} 2+i & 3-i \\ \end{array}\right) \\ = R_{1}\left(\begin{array}{c} -6+3i + 8i - 4i \\ \end{array}\right) \\ = R_{2}\left(\begin{array}{c} -2 + 11i \\ \end{array}\right) \\ = -2 A_{11} \\ \end{array} $ $ \begin{array}{c} = -2 A_{12} \\ \end{array}$ $ \begin{array}{c} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{1} \left(\begin{array}{c} 2-i \\ \end{array}\right) \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{2} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{3} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{4} \left(\begin{array}{c} 2-i $		ati	. ,	<i></i>			
$ \begin{array}{c} \left(\begin{array}{c} 2+i & 3-i \\ \end{array}\right) \\ = R_{1}\left(\begin{array}{c} -6+3i + 8i - 4i \\ \end{array}\right) \\ = R_{2}\left(\begin{array}{c} -2 + 11i \\ \end{array}\right) \\ = -2 A_{11} \\ \end{array} $ $ \begin{array}{c} = -2 A_{12} \\ \end{array}$ $ \begin{array}{c} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{1} \left(\begin{array}{c} 2-i \\ \end{array}\right) \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{2} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{3} \left(\begin{array}{c} 2-i \\ \end{array}\right) \\ = I_{4} \left(\begin{array}{c} 2-i $	-	= Ry (-3+4i x	2-1-1	1			
$= R_{1} \left(\frac{-6 + 3i + 8i - 4i^{2}}{4 - i^{2}} \right)$ $= R_{1} \left(\frac{-2}{5} + \frac{11i}{5} \right)$ $= -2 \text{Ans}$ $= Tm \left(\frac{1}{2i \cdot 2i} \right)$ $= Tm \left(\frac{1}{4 - i^{2}} \right)$ $= Tm \left(\frac{1}{5} \right)$ $= Tm \left(\frac{1}{5} \right)$ $= 0 \text{Ans}$			a-i")				
$ \begin{array}{ll} $		= R/ -6 +31 +81	i -41°2	-)			
$= -2 \qquad A_{NS}$ $= Im \left(\frac{1}{z_1 z_1} \right)$ $= Im \left(\frac{1}{(\alpha^{-1})(\alpha + i)} \right)$ $= Im \left$		4-12				V.	
$= -2 \qquad A_{NS}$ $= Im \left(\frac{1}{z_1 z_1} \right)$ $= Im \left(\frac{1}{(\alpha^{-1})(\alpha + i)} \right)$ $= Im \left$. "	= P(-) +11:)					
$= -2 \qquad A_{NS}$ $= Im \left(\frac{1}{z_1 z_1} \right)$ $= Im \left(\frac{1}{(\alpha^{-1})(\alpha + i)} \right)$ $= Im \left$		5					,
(ii) $Tm(\frac{1}{z_1\overline{z_4}})$ $= Jm(\frac{1}{(a^2-i)(a+i)})$ $= Jm(\frac{1}{4-i^2})$ $= Jm(\frac{1}{5})$ $= 0 Ams = -\infty$					-		
$= Im \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right) \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right)$ $= Im $		= -2 HNS	K 1		-		
$= Im \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right) \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right)$ $= Im $		3	1		t	• • •	1
$= Im \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right) \left(\frac{\sqrt{2-i}}{\sqrt{2-i}} \right)$ $= Im $	(ii)	Tm/	1	<u> </u>			
$ \begin{array}{c} \left(3-i\right)\left(3+i\right) \\ -3m\left(4-i^{2}\right) \\ -3m\left(\frac{1}{5}\right) \end{array} $ $ \begin{array}{c} =0 \text{Ans} -\infty \end{array} $		(2,24)			,		
$= \operatorname{Im}\left(\frac{1}{4-i^{2}}\right)$ $= \operatorname{Im}\left(\frac{1}{5}\right)$ $= 0 \operatorname{Ans} -\infty$		= Im/					
$= \operatorname{Im}\left(\frac{1}{4-i^{2}}\right)$ $= \operatorname{Im}\left(\frac{1}{5}\right)$ $= 0 \operatorname{Ans} -\infty$		(2-i)/à	(+i)				
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