

SRM Institute of Science and Technology Kattankulathur

DEPARTMENT OF MEATHEMATICS

18MAB102T ADVANCED CALCULUS & COMPLEX ANALYSIS



UNIT –IV Mapping and Bilinear Transformation

			Answers
Part – A			
1	Find the images of the where the map $w = \frac{1}{z}$		$u = -\frac{1}{2}$
2	Find the images of the $ z-2i =2$ where the map $w=\frac{1}{z}$		$v = -\frac{1}{4}$
3	Describe abo	$\frac{1}{z} \text{ transformation.}$	
4	Define Bili	near Transformation	
Part – B			
5	Find the bit $w = i, 0, -i$	dlinear map which maps the points $z=1,i,-1$ onto the points	$\frac{-z+i}{z+i}$
6	Find the bi $w = 0, -i, \infty$	linear map which maps the points $z = \infty, i, 0$ onto the points	$\frac{1}{z}$
7	Find the bi $w=i,1,-i$	linear map which maps the points $z=0,1,\infty$ onto the points	$\frac{z+i}{1+iz}$

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