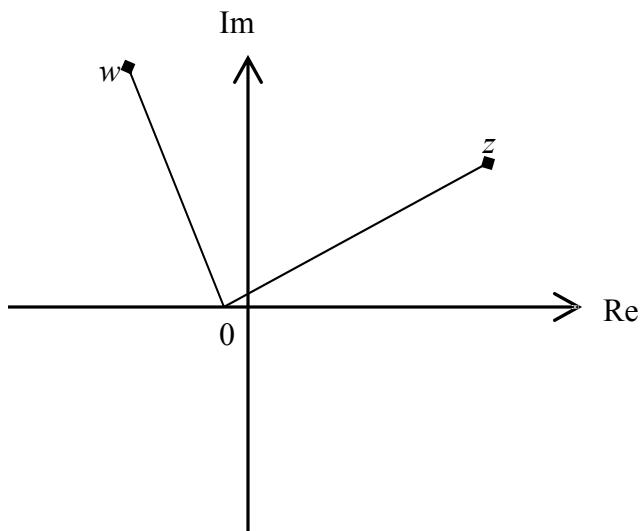


# Examination Style Paper

2. (a) 1.29  
3. (a)  $\mathbf{R}$  represents a rotation of  $135^\circ$  anti-clockwise about  $(0, 0)$

$\mathbf{S}$  represents an enlargement scale factor  $\sqrt{2}$ , centre  $(0, 0)$

- (b)  $\begin{pmatrix} -1 & -1 \\ 1 & -1 \end{pmatrix}$   
(c) 2  
4. (a)  $1 - i$   
(b)  $z^2 - 2z + 2$   
(c)  $-1 + 2i$  and  $-1 - 2i$   
6. (a)  $\begin{pmatrix} x+4 & 7-2x \\ 1 & x \end{pmatrix}$   
(b) -7 or 1  
7. (a)  $z = 4 + 3i$ ,  $w = -3 + 4i$   
(b) 5  
(c) 2.21  
(d)



- (e)  $5\sqrt{2}$   
8. (a)  $y = -\frac{1}{2} + 4\frac{1}{2}$   
(b)  $(-4, 6.5)$   
(c)  $\left(\frac{169}{64}, \frac{13}{2}\right)$