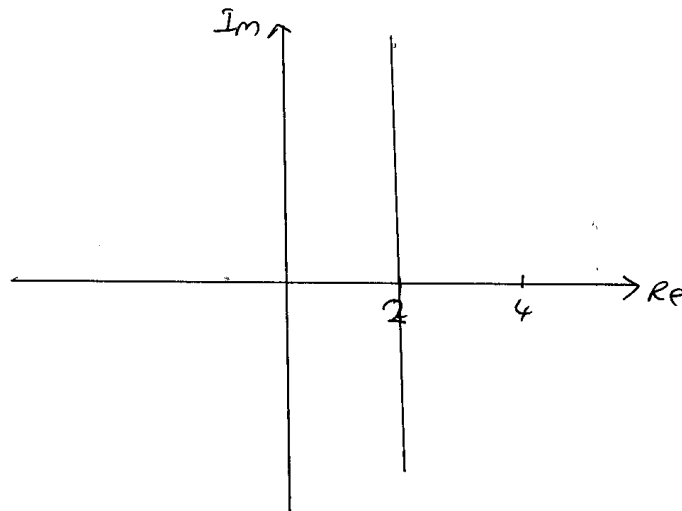


# Further Pure 1

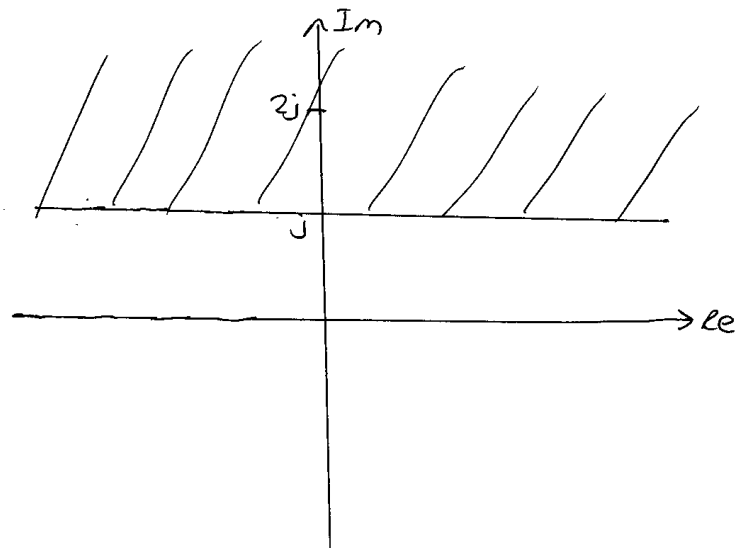
## Complex Numbers

### Exercise D

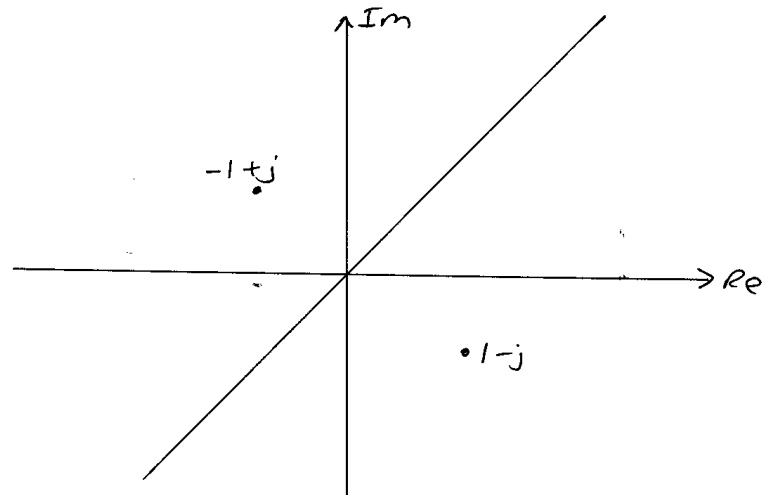
5(i)  $|z| = |z - 4|$  represents the perpendicular bisector of the origin and the point 4.



(ii)  $|z| \geq |z - 2j|$  represents the perpendicular bisector of the origin and the point  $2j$ , and the points on the side of this line containing the point  $2j$ .



(iii)  $|z+1-j| = |z-1+j|$  represents the perpendicular bisector of the points  $-1+j$  and  $1-j$ .



(iv)  $|z+5+7j| \leq |z-2-6j|$  represents the perpendicular bisector of the points  $-5-7j$  and  $2+6j$ , and the points on the side of this line containing  $5+7j$ .

