

Edexcel (U.K.) Pre 2017

Questions By Topic

FP2 Chap03 Further Complex Numbers

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6. A complex number z is represented by the point P in the Argand diagram.

(a) Given that $|z - 6| = |z|$, sketch the locus of P . (2)

(b) Find the complex numbers z which satisfy both $|z - 6| = |z|$ and $|z - 3 - 4i| = 5$. (3)

The transformation T from the z -plane to the w -plane is given by $w = \frac{30}{z}$.

(c) Show that T maps $|z - 6| = |z|$ onto a circle in the w -plane and give the cartesian equation of this circle. (5)

