



Complex Numbers
Maths Past Exam Questions
Higher Level

2012

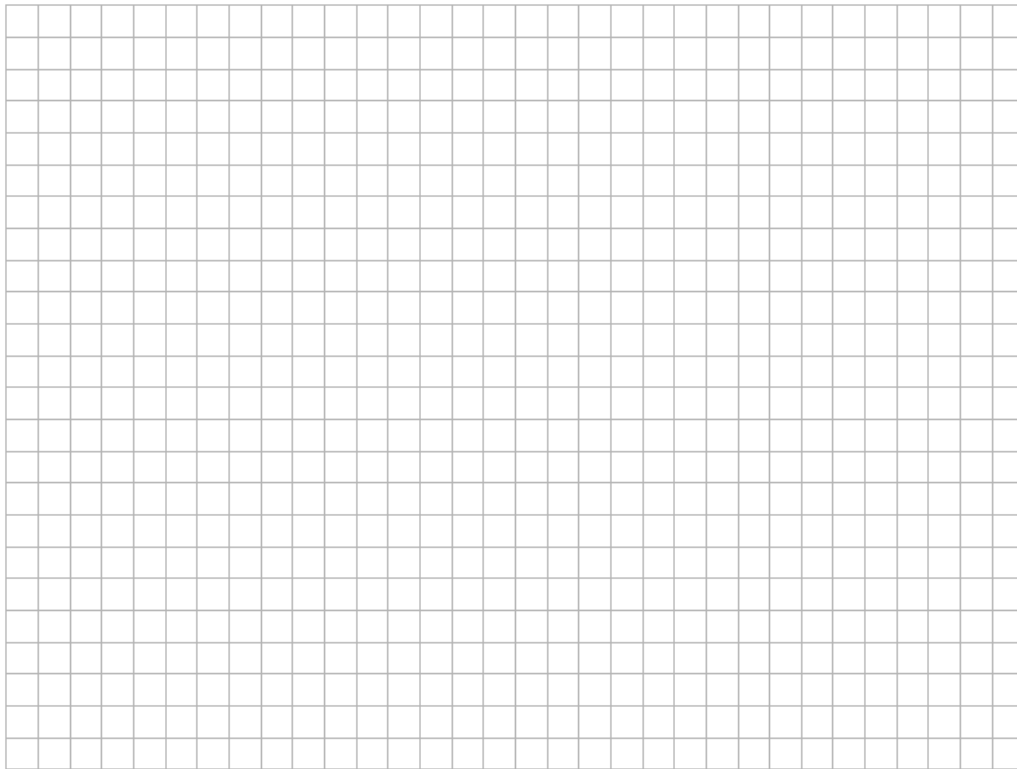
Paper 1 – Project Maths – Section A – Q3

Question 3

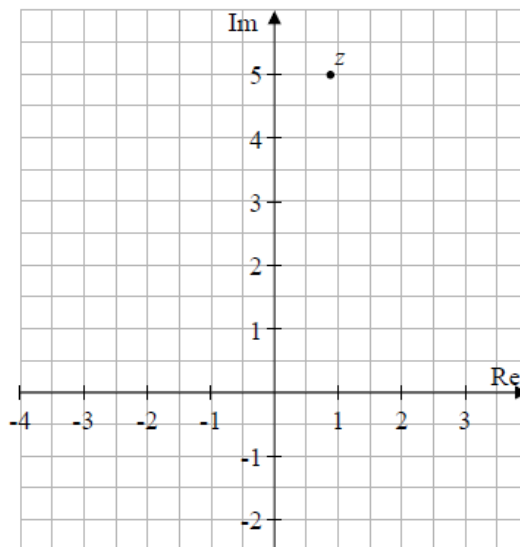
(25 marks)

The complex number z has modulus $5\frac{1}{16}$ and argument $\frac{4\pi}{9}$.

- (a) Find, in polar form, the four complex fourth roots of z .
(That is, find the four values of w for which $w^4 = z$.)



- (b) z is marked on the Argand diagram below.
On the same diagram, show the four answers to part (a).



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