MATH 307: Quiz 1 Solution

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Problem 1

$$Z=-1+i, \; |Z^2|=?, \; \frac{|Z^2|}{\overline{Z}}=?$$

Problem 2

 $\mathbb{A} = 4^n, 4^m, \dots \text{ for } n, m \in \mathbb{N}, \text{ is } (A, \times) \text{ an Abelian group?}$

Problem 3

If C(x) is polynomials with complexed value coefficient, is $C(x), +, \times$ a field?