Question 1

Prove that $x^{4}$- $16x^{2}+ 4 $ is irreducible in **Q**[x].

Question 2

Show that ever element of **C** is algebraic over **R**

Hint : By the Factor Theorem , a+bi is a root of f(x) = (x-(a +bi))(x-(a-bi).Verify that f(x) has real coefficients.

**C**-complex

**R**-reals