Question 6

Sunday, November 12, 2023

8:02 PM

6. Let f(x) be a polynomial with real coefficients. Show that if $z \in \mathbb{C}$ is a root of f(x) then so is its complex conjugate \bar{z} .

lenmi:
$$\overline{Z}^n = (\overline{Z})^n$$

But
$$(\overline{z})^n = (re^{i \circ})^n \Rightarrow r^n e^{-i \circ n}$$