

1. (2 pt) February 6, 2020

Let $p_n(z) = a_0 + a_1z + \cdots + a_nz^n$ be a polynomial of degree $n > 1$.

(a) There is $w \in \mathbf{C}$ such that $p_n(w) = 0$.

(b) If $p_n(w) = 0$, then $p_n(z) = (z - w)q_{n-1}(z)$.

Solved by: on: