Course11

1

Tuesday, December 14, 2021 5:08 PM

Shen 
$$\exists z_{0} \in \mathbb{C}$$
 s.t.  $p(z_{0}) = 0$ .  
Proof: Assume that  $p(z) \pm 0$ ,  $\forall z \in \mathbb{C}$ . Zet  $f = \frac{1}{p} eff(\mathbb{C})$ .  
Isouf  $f(z) = \lim_{z \to \infty} \frac{1}{z(a_{1} + a_{-1}(\frac{1}{2} + \dots + a_{0}(\frac{1}{2}))} = 0$   
 $= 35 \ge 0$  st.  $|f(z)| \le 4$ ,  $\forall (z_{1}) \le 0$   
 $f is out. on U(0, S) = 1$  is bounded on  $U(0, S) = B$  is constant and  
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 $= 1p is constant and
 = 1p is constant and$$$ 

Moreover, 
$$S^{(n)}(z) = \sum_{i=1}^{n} a_{i} \cdots (a-k+i) (z-k)^{n-k}$$
,  $z \in Hapf, kernet, interval (z-k),  $y \in N$ ,  $y \in N$ ,$ 

1 L