

$$1 c) \quad P(s) = s^3 + 4s^2 + 8s + 16$$

All coefficients are positive

+	3	1	8		
+	2	4	16		
+	1	4			
+	0	16			

$$b_{n-1} = - \frac{(1 \cdot 16 - 4 \cdot 8)}{4} = 4$$

$$c_{n-1} = - \frac{(4 \cdot 0 - 4 \cdot 16)}{4} = 16$$

sign changes \rightarrow ZERO

Roots with positive real parts \rightarrow ZERO