2) Verify that z = 1+i and z = 1-i satisfy the equation $z^2 - 2z + 2 = 0$ Let Z=Z,: $Z_i^2 - \lambda Z_i + \lambda = (1+i)^2 - \lambda (1+i) + \lambda$ = $(1+\lambda i-1) - \lambda - \lambda i + \lambda$ = 2:-2: Thus, Z, satisfies the equation. Let $z=z_1$: $z_2^2-2z_2+2=(1-i)^2-2(1-i)+2$ =(1-2i-1)-2+2i+2 $= -\lambda i + \lambda i$ = 0 Thus, Z, satisfies the equation