

## Quiz 5

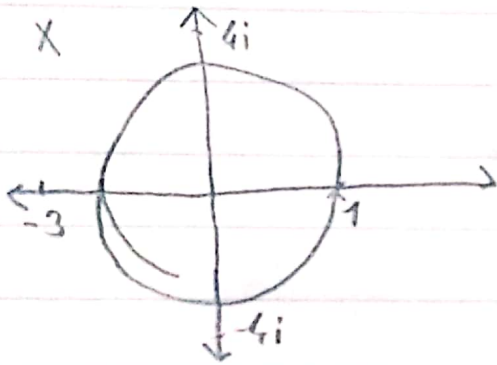
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1-)  $(E-1)(E^2+6E+25)y[k], 3Ef[k]$

$$\Delta = -64$$

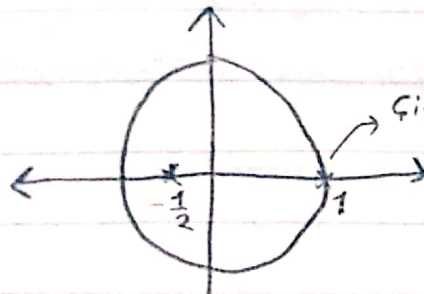
$$\frac{-6+8i}{2} = -3+4i, \lambda_1 \quad \frac{-6-8i}{2} = -3-4i, \lambda_2 \quad \lambda_3 = -1$$



$\Rightarrow$  kararlıdır.

2-)  $(E-1)^2(E+0,5)y[k] = (E^2+2E+3)f[k]$

$$\lambda_1, \lambda_2 = 1 \Rightarrow \text{çift katlı kök} \quad \lambda_3 = -0,5$$



$\Rightarrow$  çift katlı kök  $\Rightarrow$  (kararlıdır)