Assignment Problems for

1) Realize using DF and cascade Structures

1) $4(n) - \frac{1}{4}y(n-1) + \frac{1}{4}y(n-2) - \frac{1}{6}y(n-3) = x(n) + 3x(n-1) + 3x(n-2) + x(n-3)$

ii)
$$H(z) = \frac{(z^2+1)^2}{(1-\frac{1}{4}z^1)(z^2-z+\frac{1}{2})}$$

iiil sim with pole zero plot

Realize $h(n) = \{1, 2, 4, -, -, -\}$ glinear phase FIR 81m with even symmetry of order 6 using i) Direct form Structure is Kinearphase structure min multipliers).