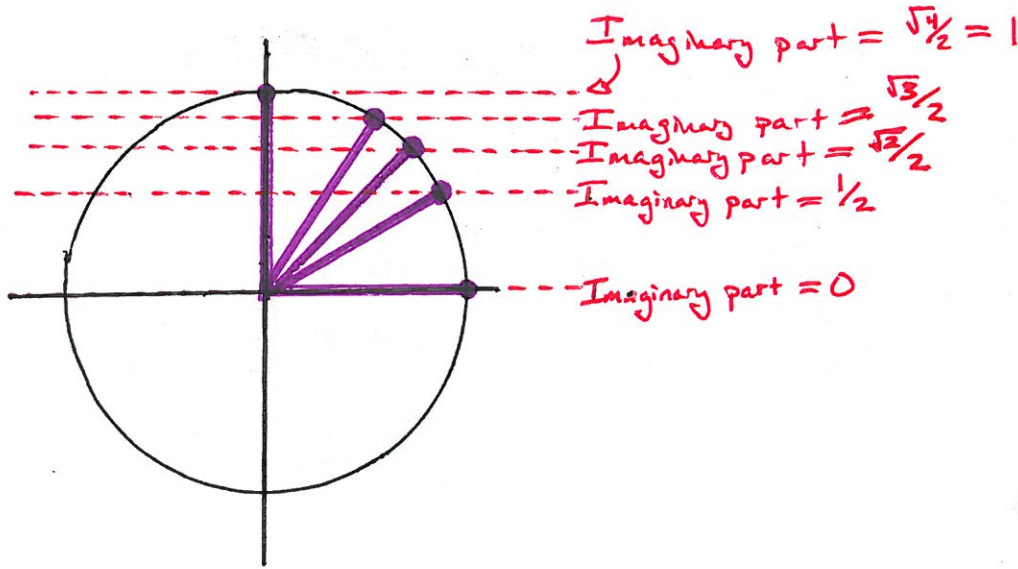


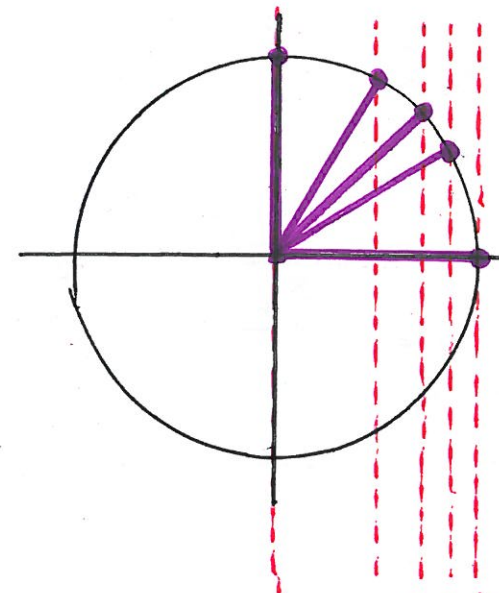
Remark on  $\omega_N$ :

These are easy to figure out, because there are only 5 numbers to remember

$$0, 1, \sqrt{2}, \sqrt{3}, \sqrt{4}=2$$



(Signs change depending on quadrant.)



$\text{Real part} = 0$   
 $\text{Real part} = 1/2$   
 $\text{Real part} = \sqrt{2}/2$   
 $\text{Real part} = \sqrt{3}/2$   
 $\text{Real part} = \sqrt{4}/2 = 1$