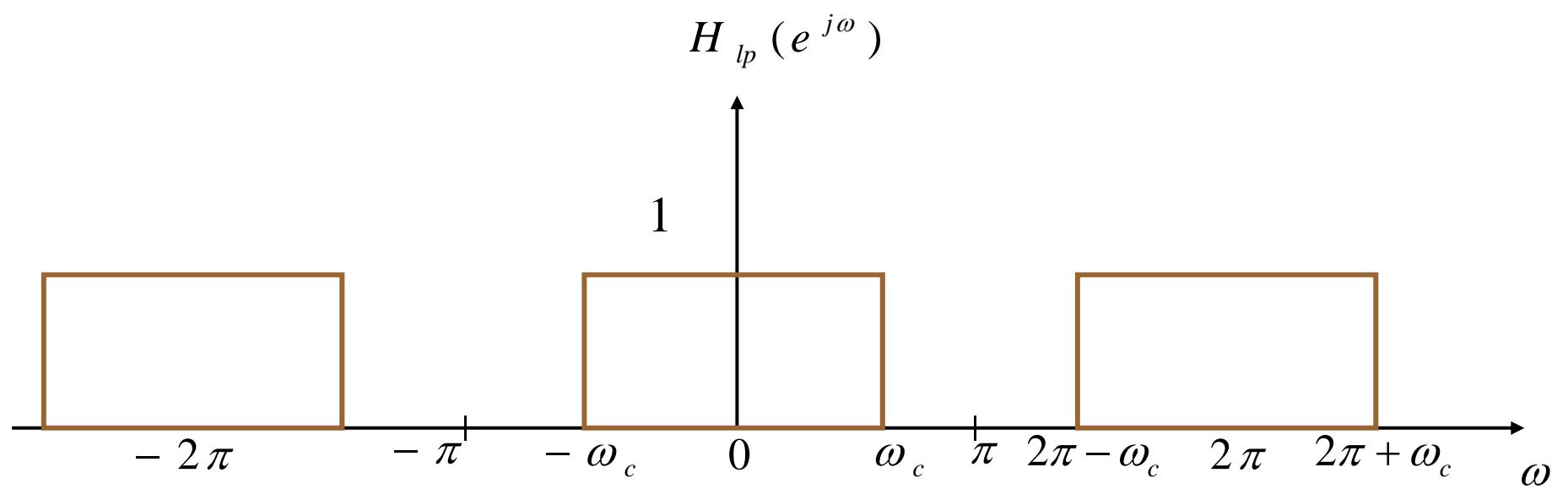
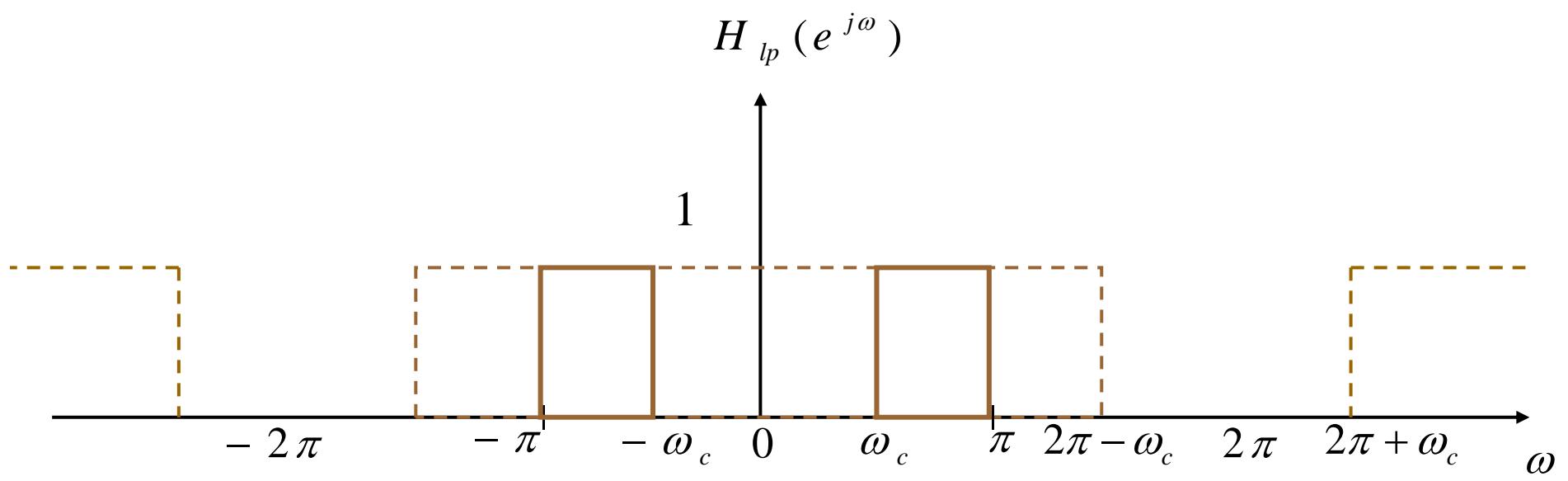


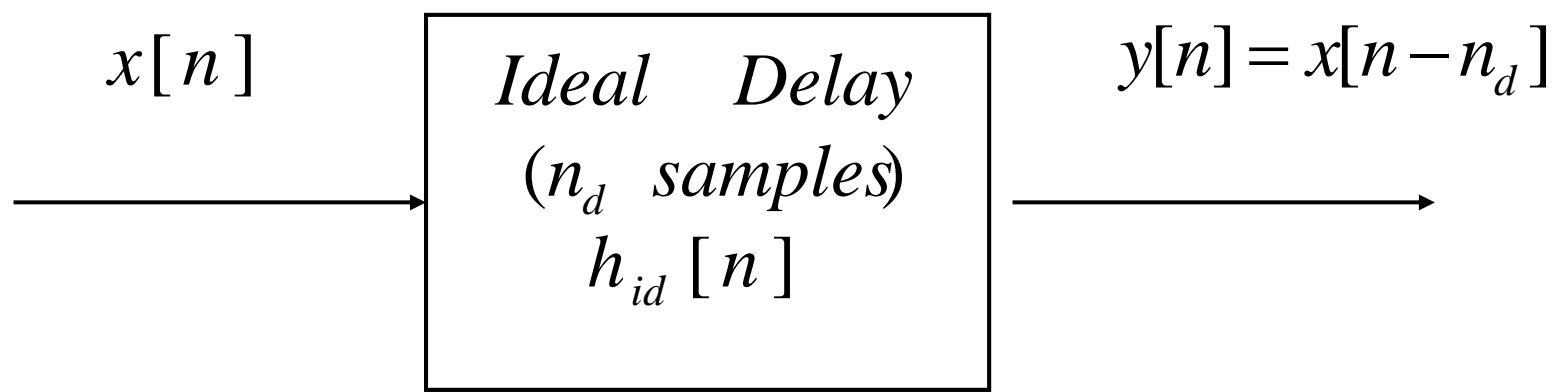
**Figure 5.1**



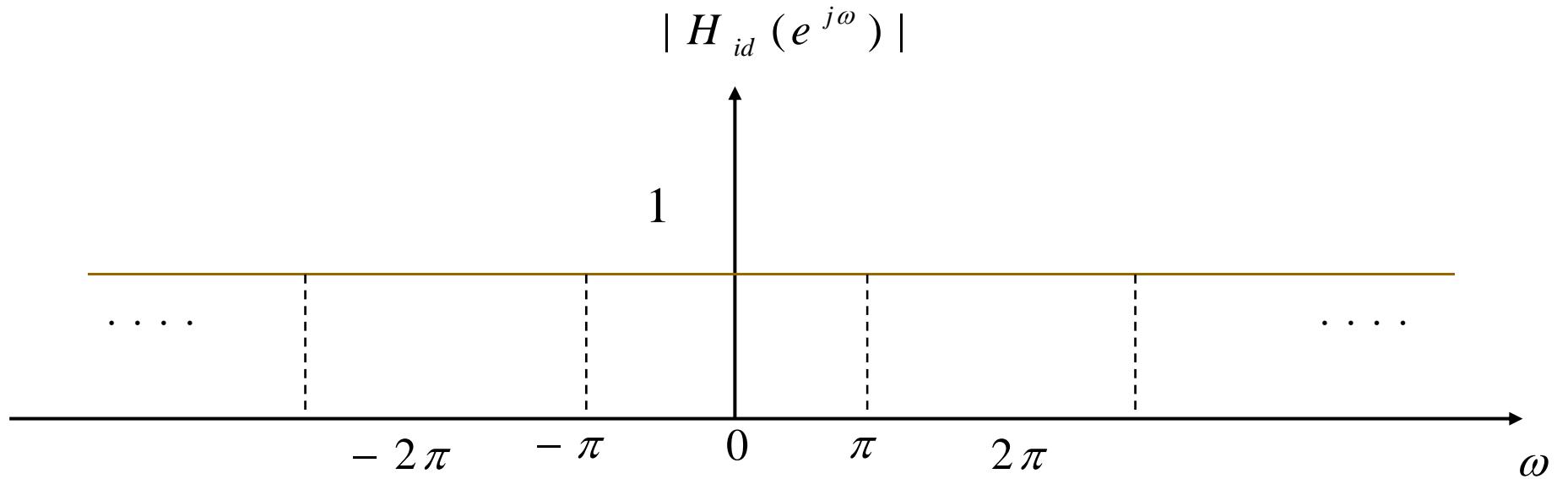
**Figure 5.2**



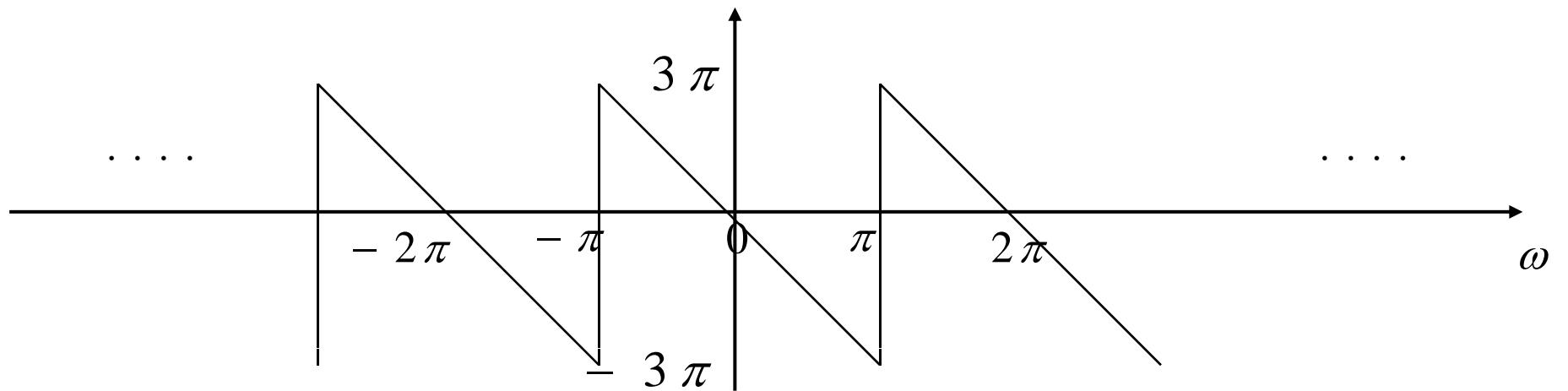
**Figure 5.3**



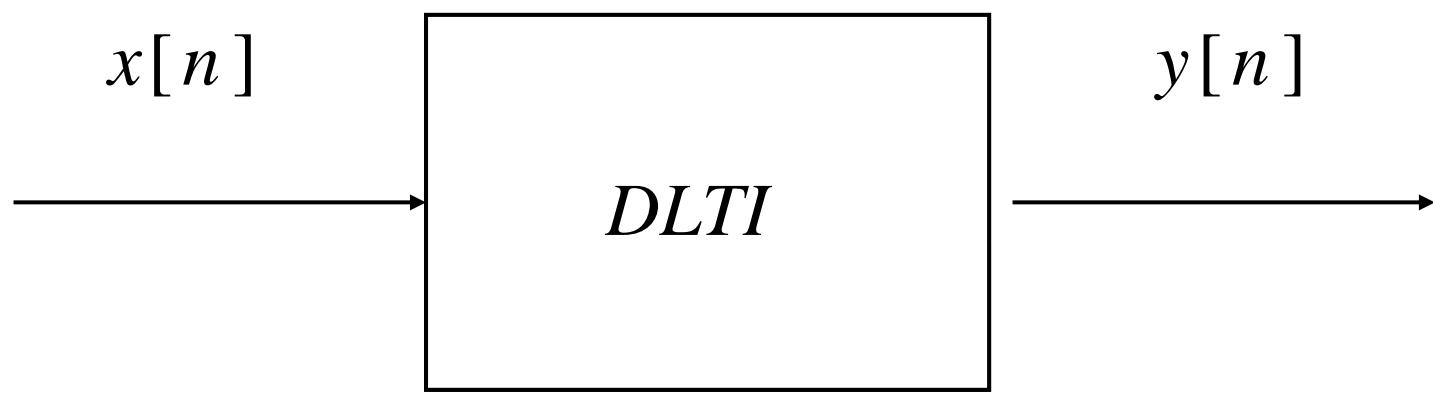
**Figure 5.4**



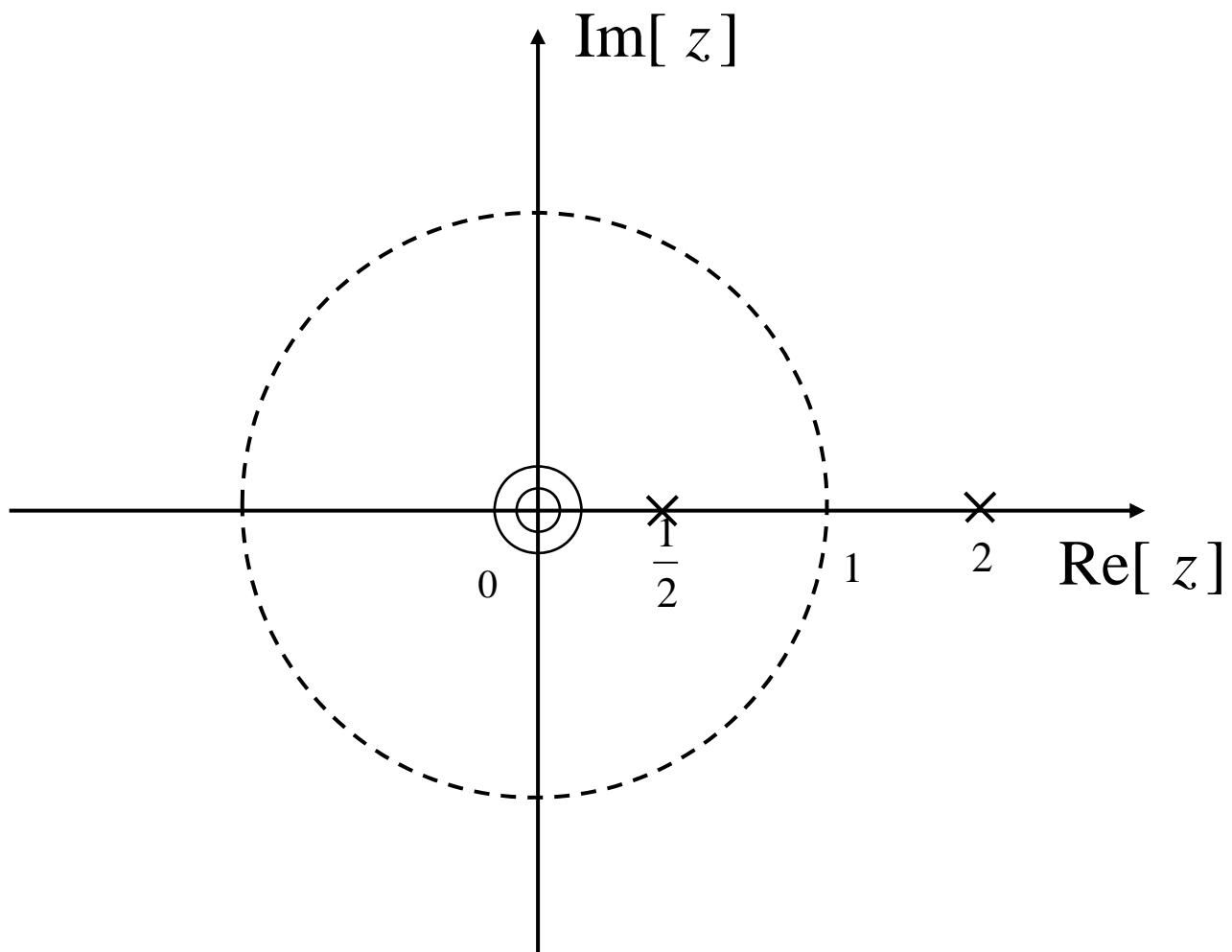
$$\Phi_{H_{id}}(e^{j\omega}) = -3\omega$$



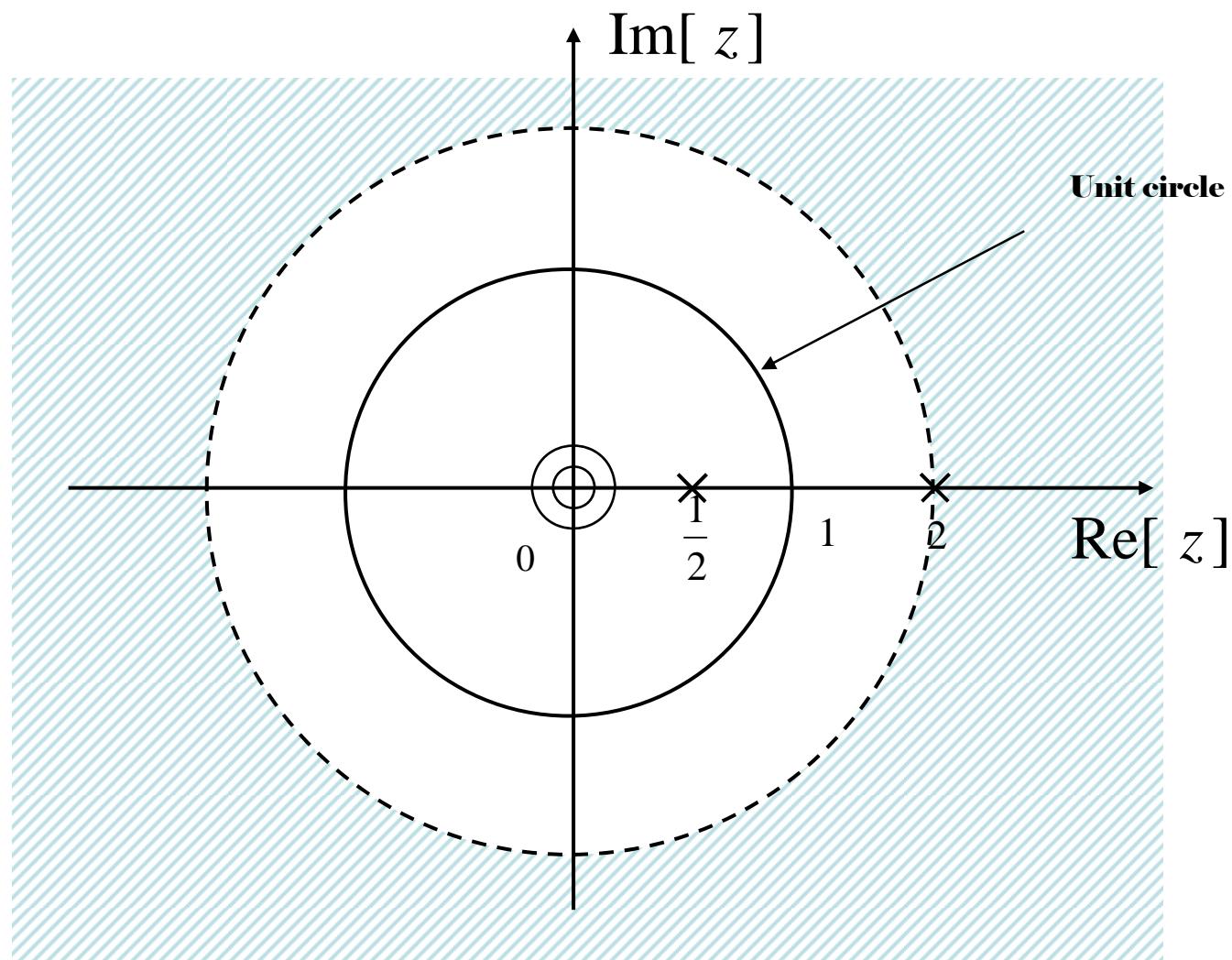
**Figure 5.5**



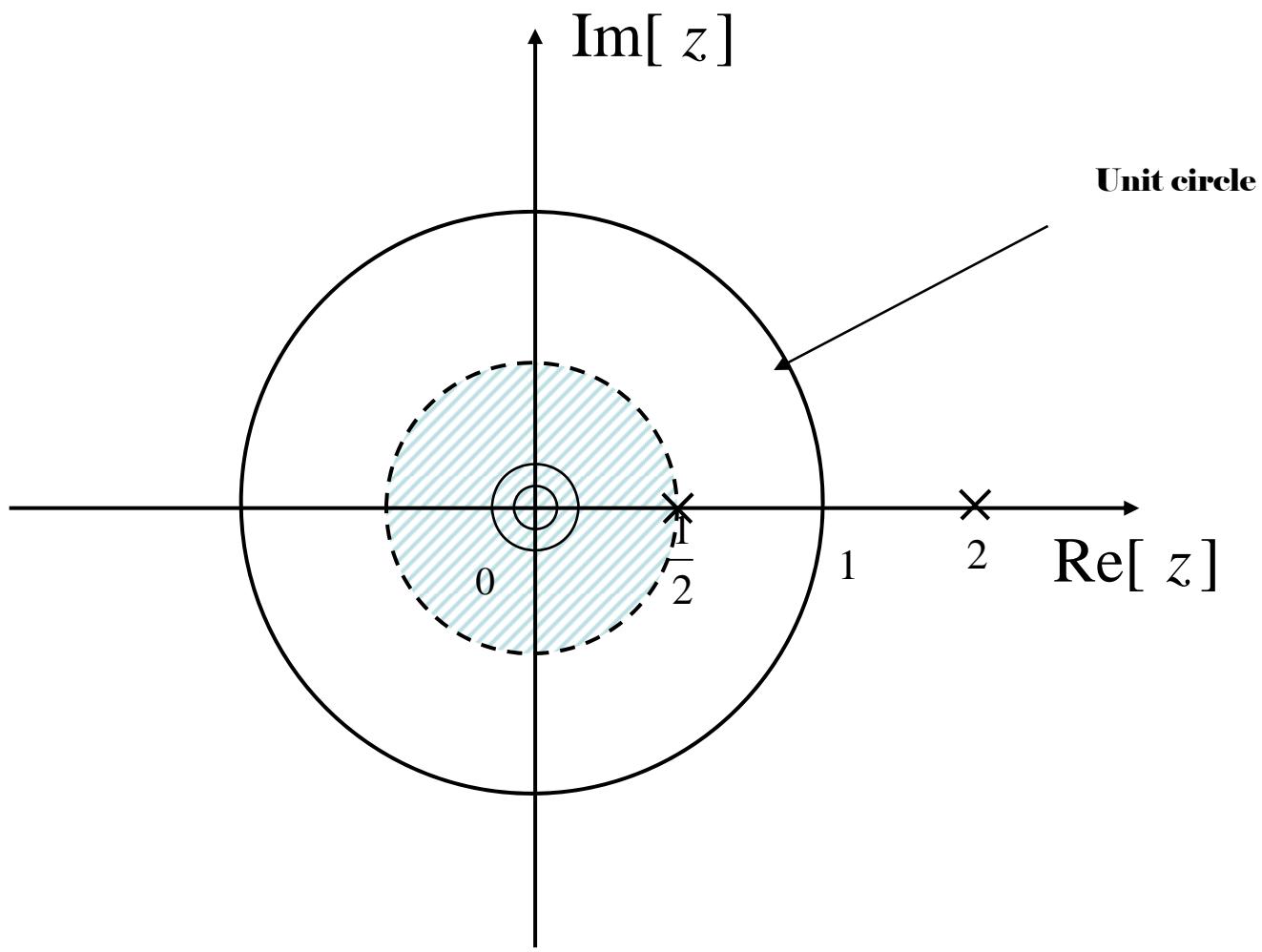
**Figure 5.6**



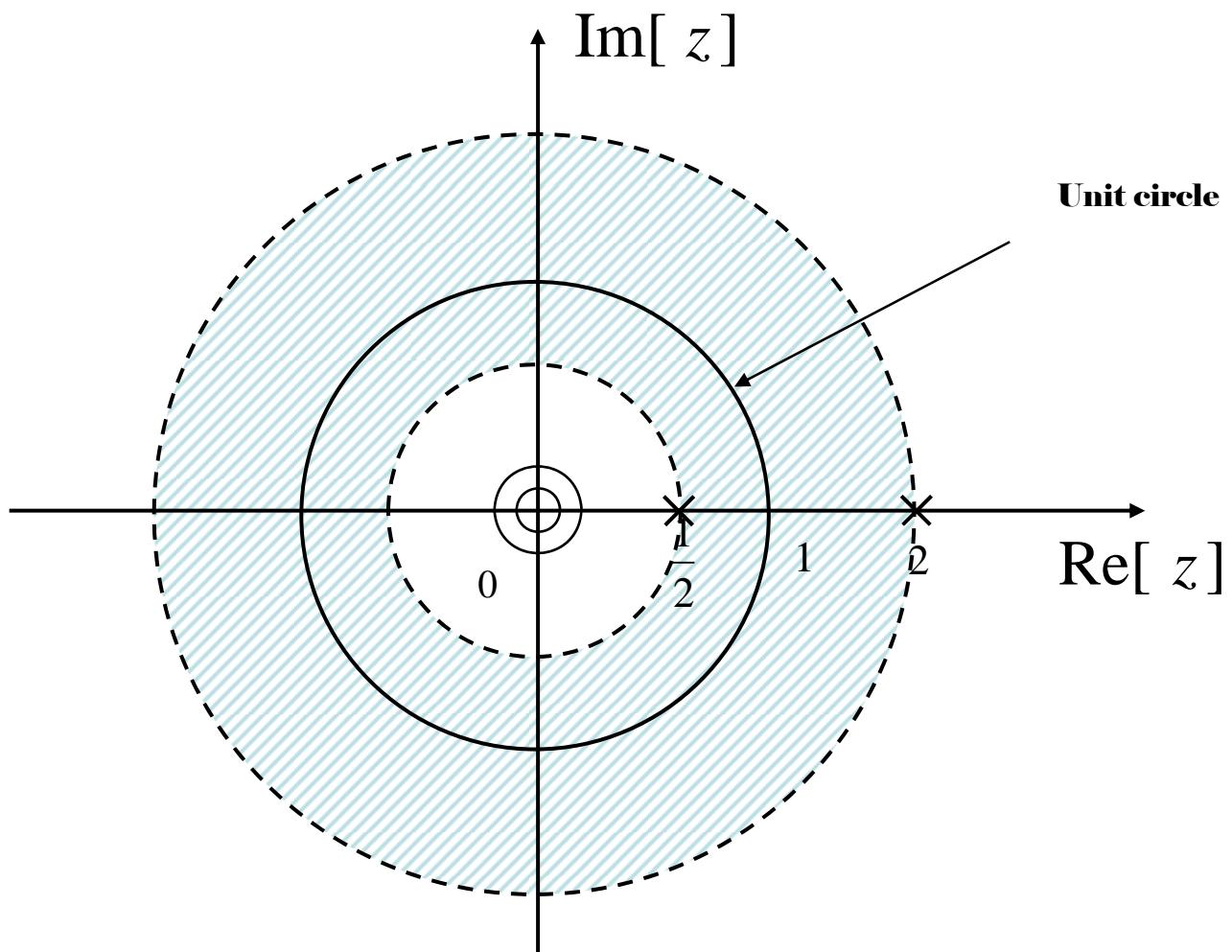
**Figure 5.7**



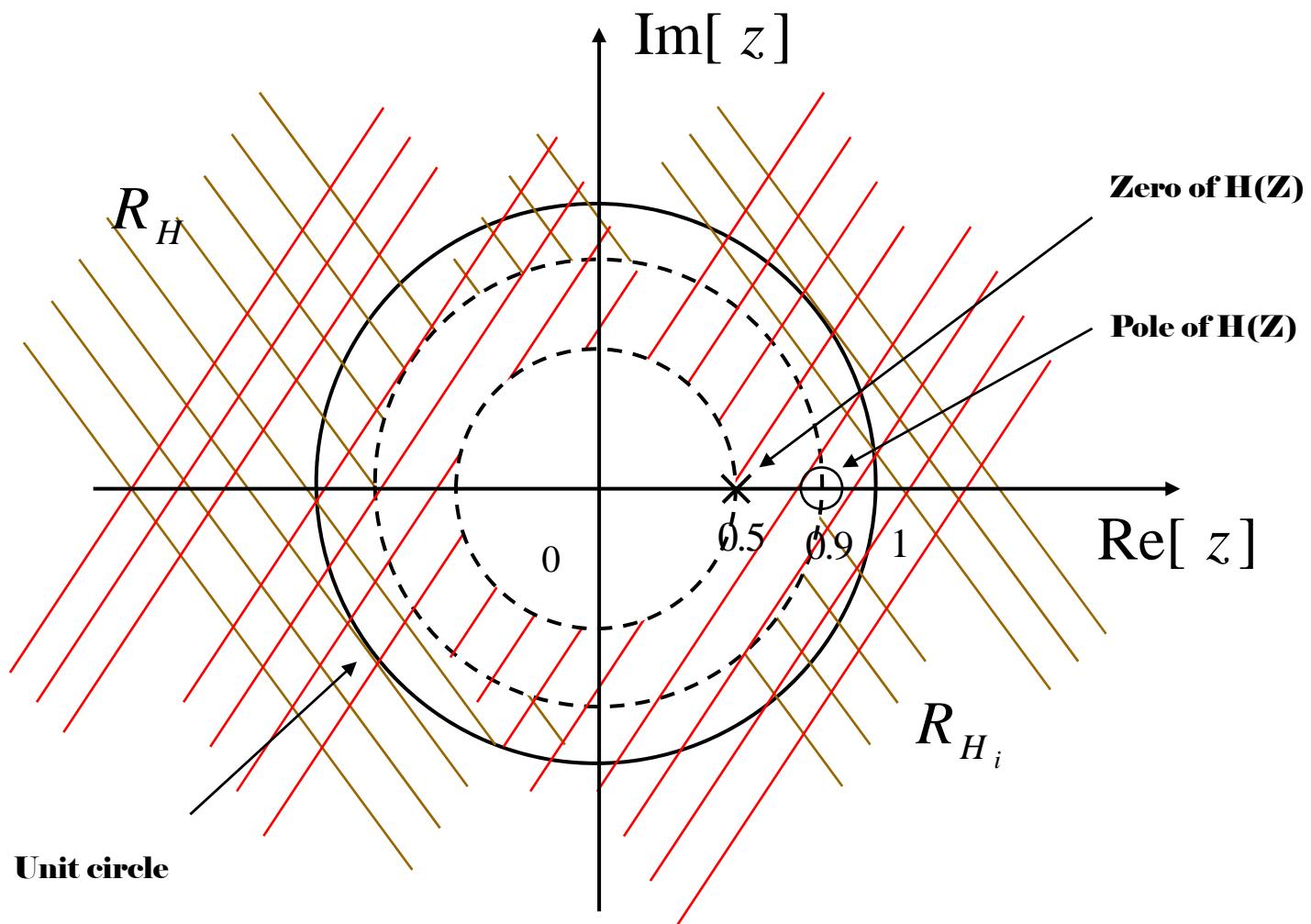
**Figure 5.8**



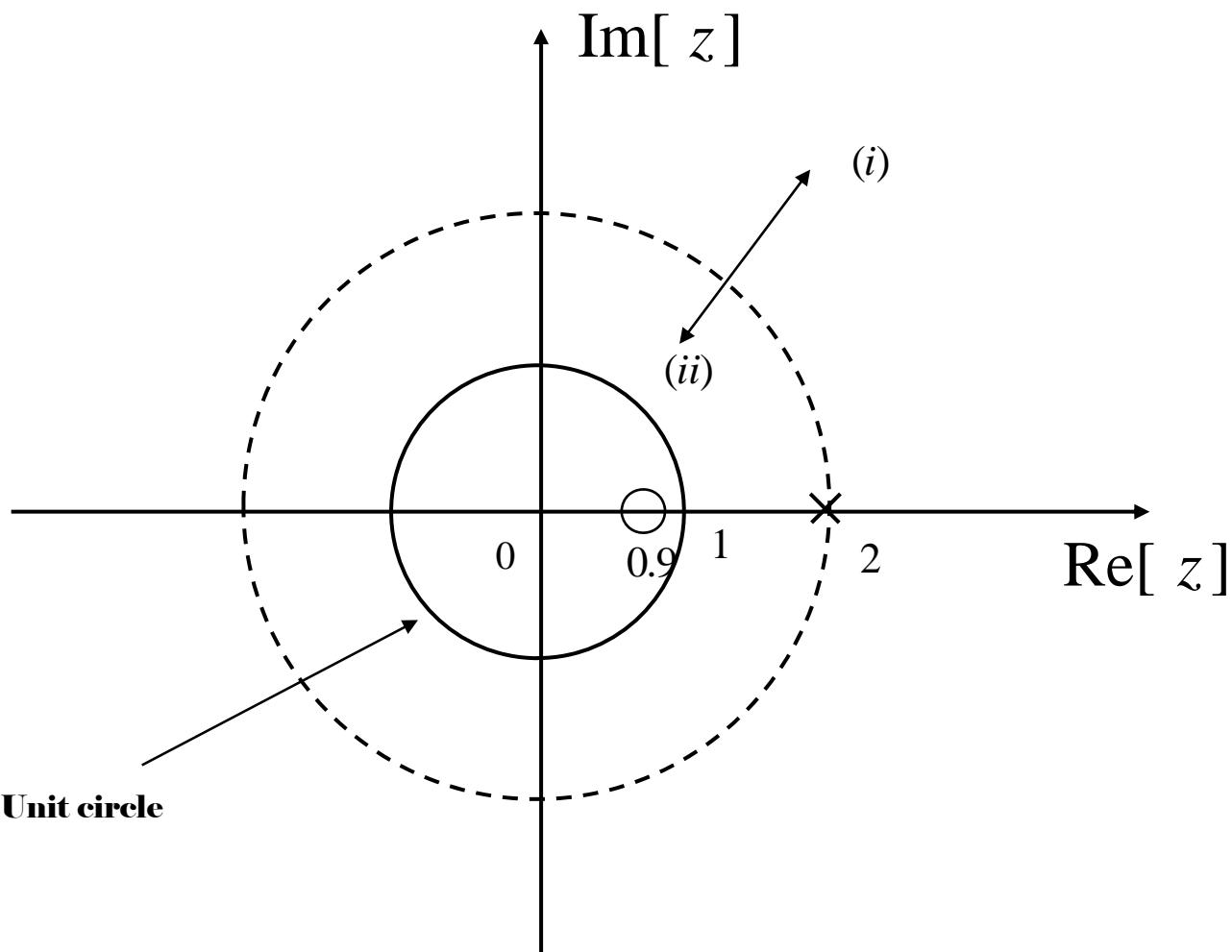
**Figure 5.9**



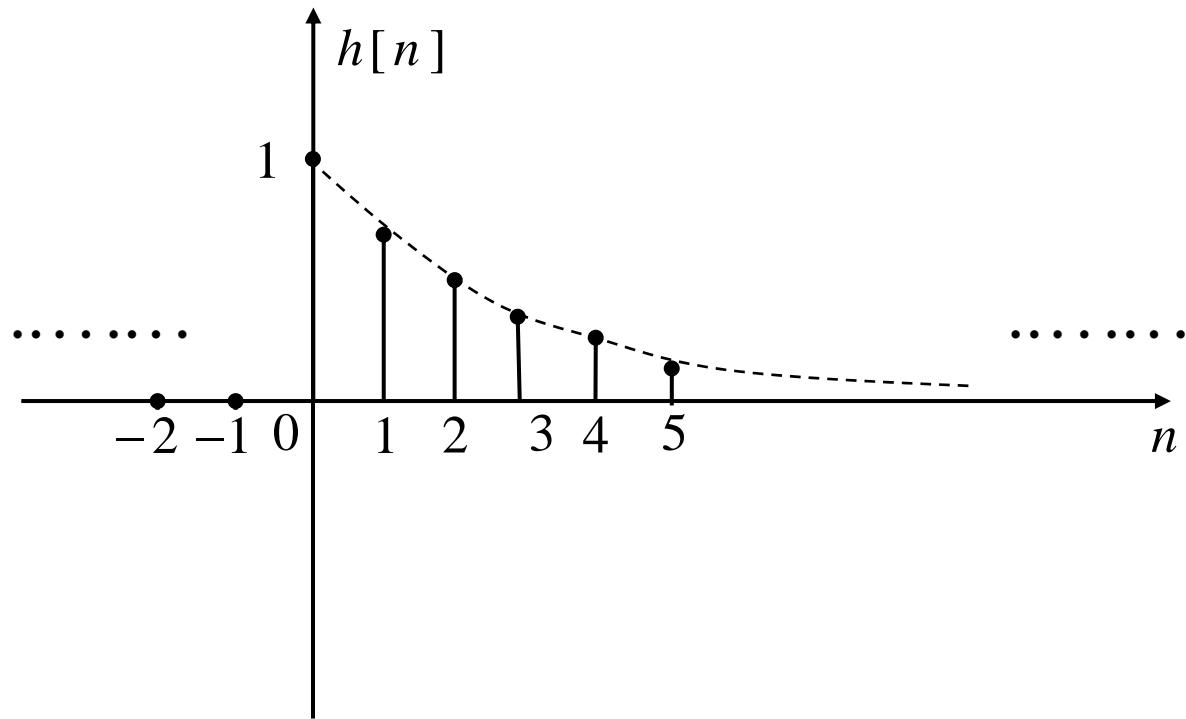
**Figure 5.10**



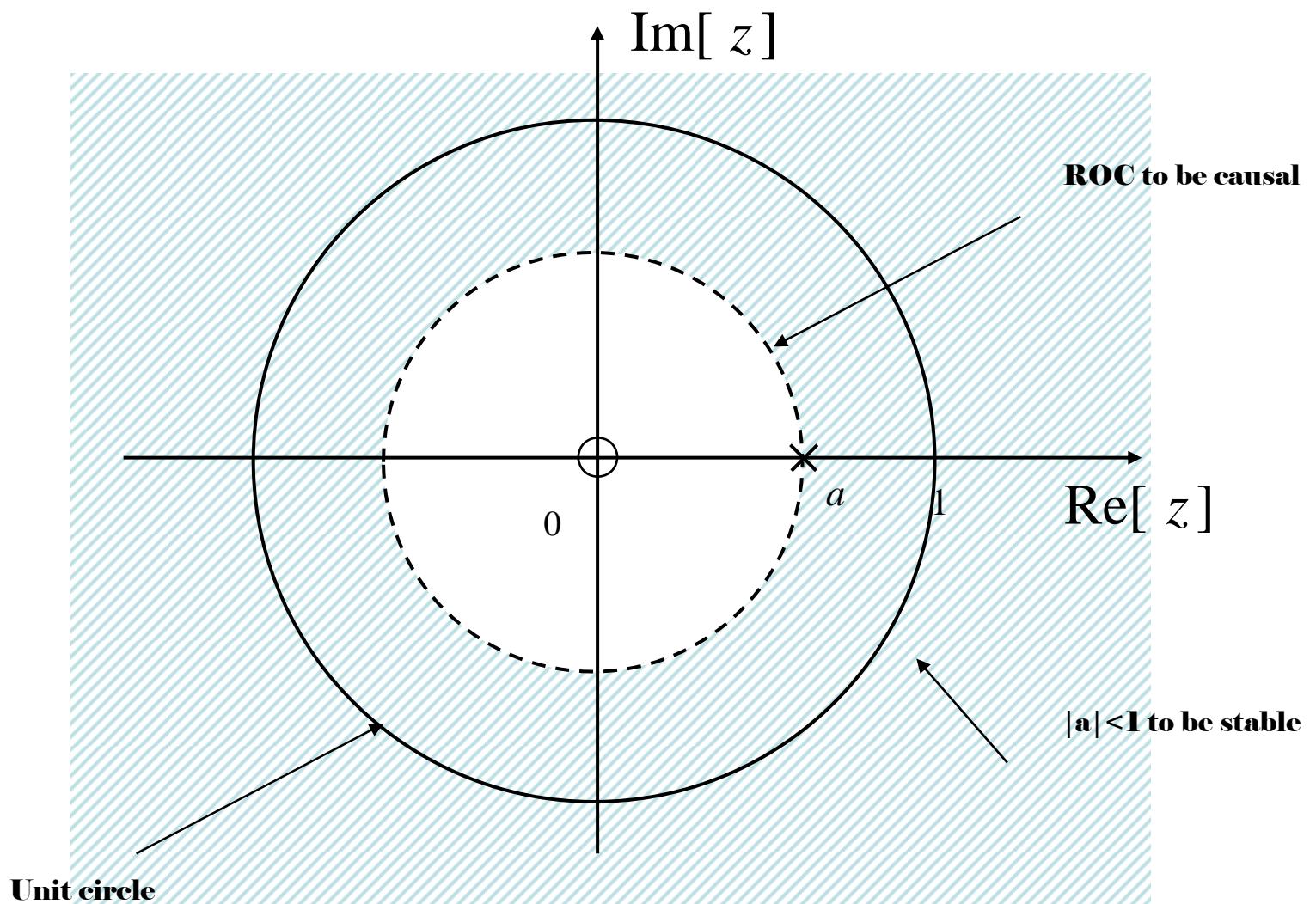
**Figure 5.11**



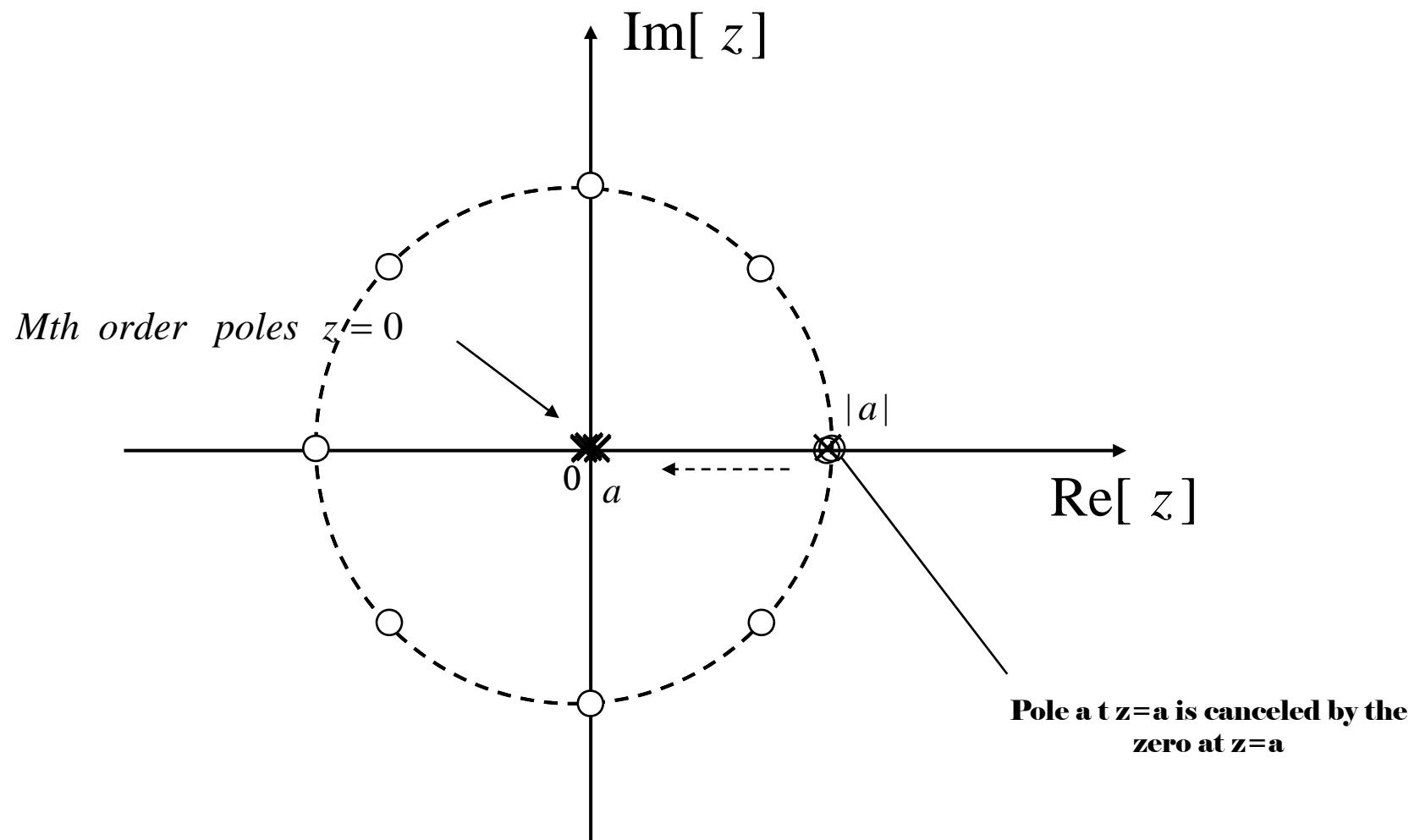
**Figure 5.9**



**Figure 5.13**

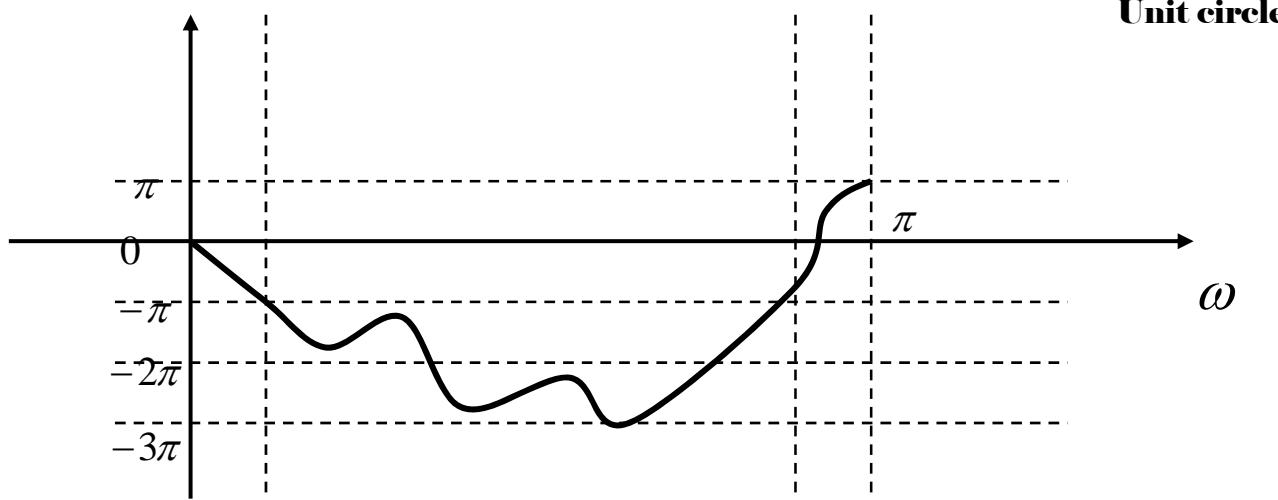


**Figure 5.14**



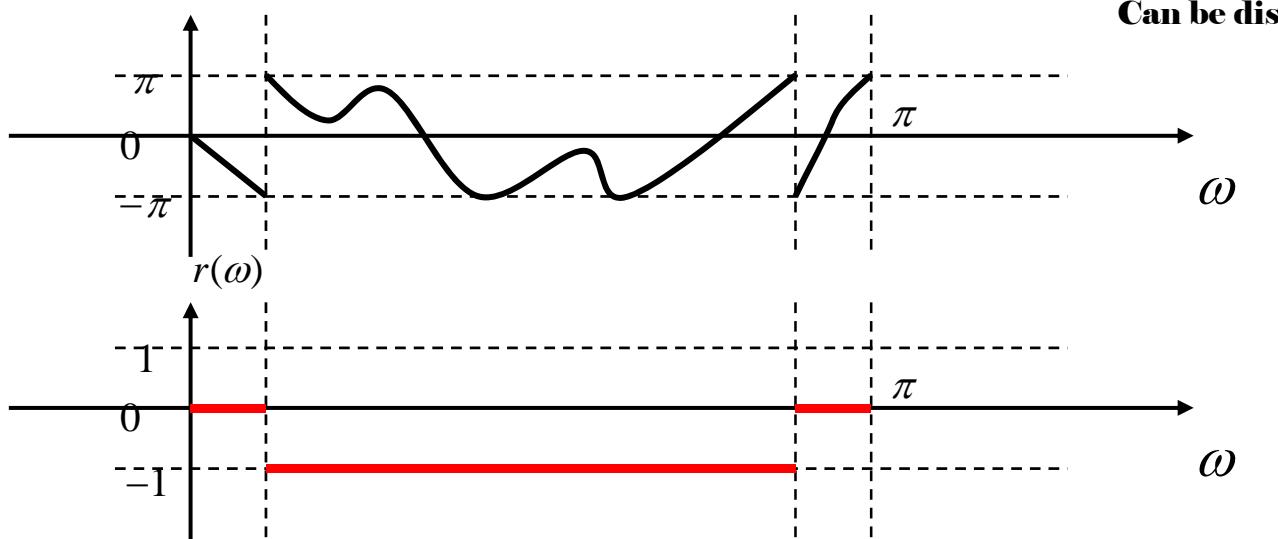
**Figure 5.15**

$\arg[H(e^{j\omega})]$



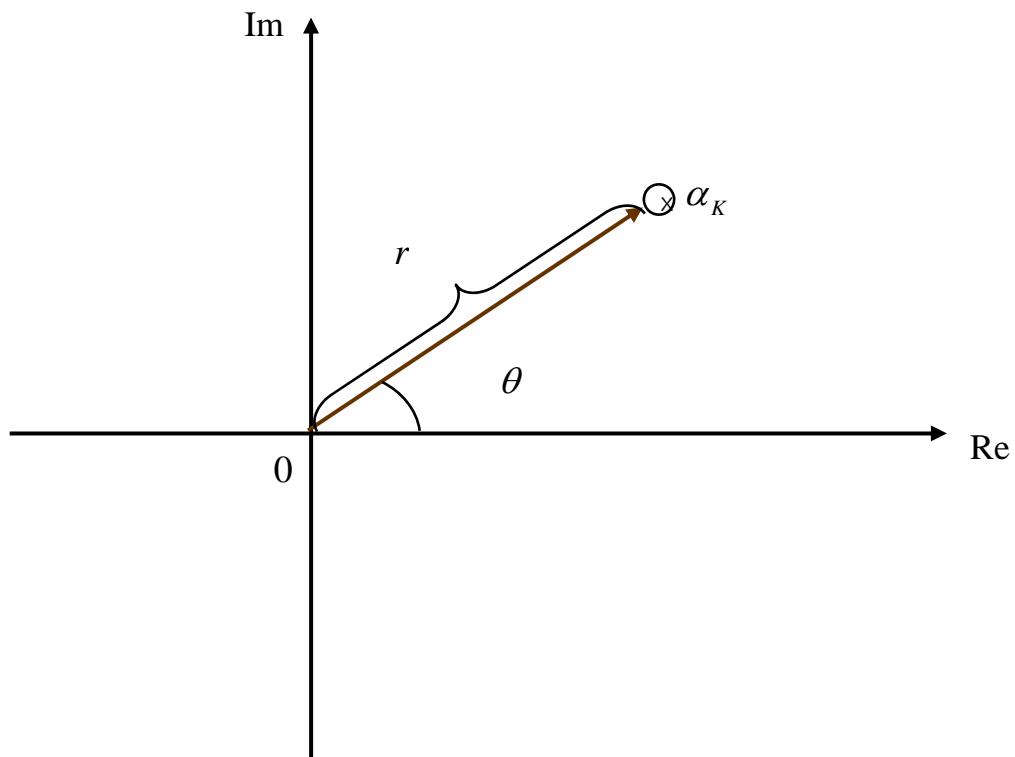
**Unit circle**

$ARG[H(e^{j\omega})]$

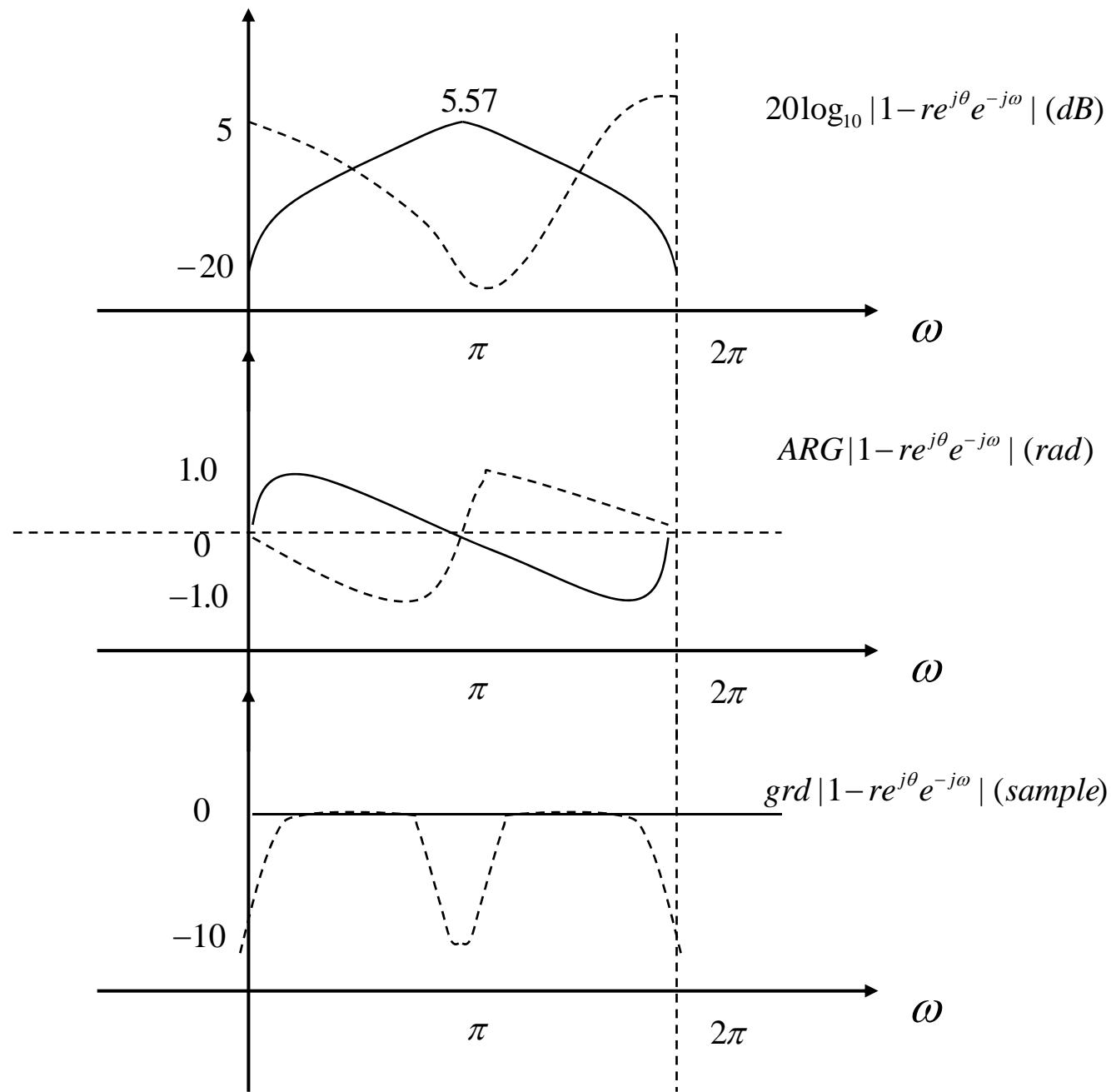


**Can be discontinuous**

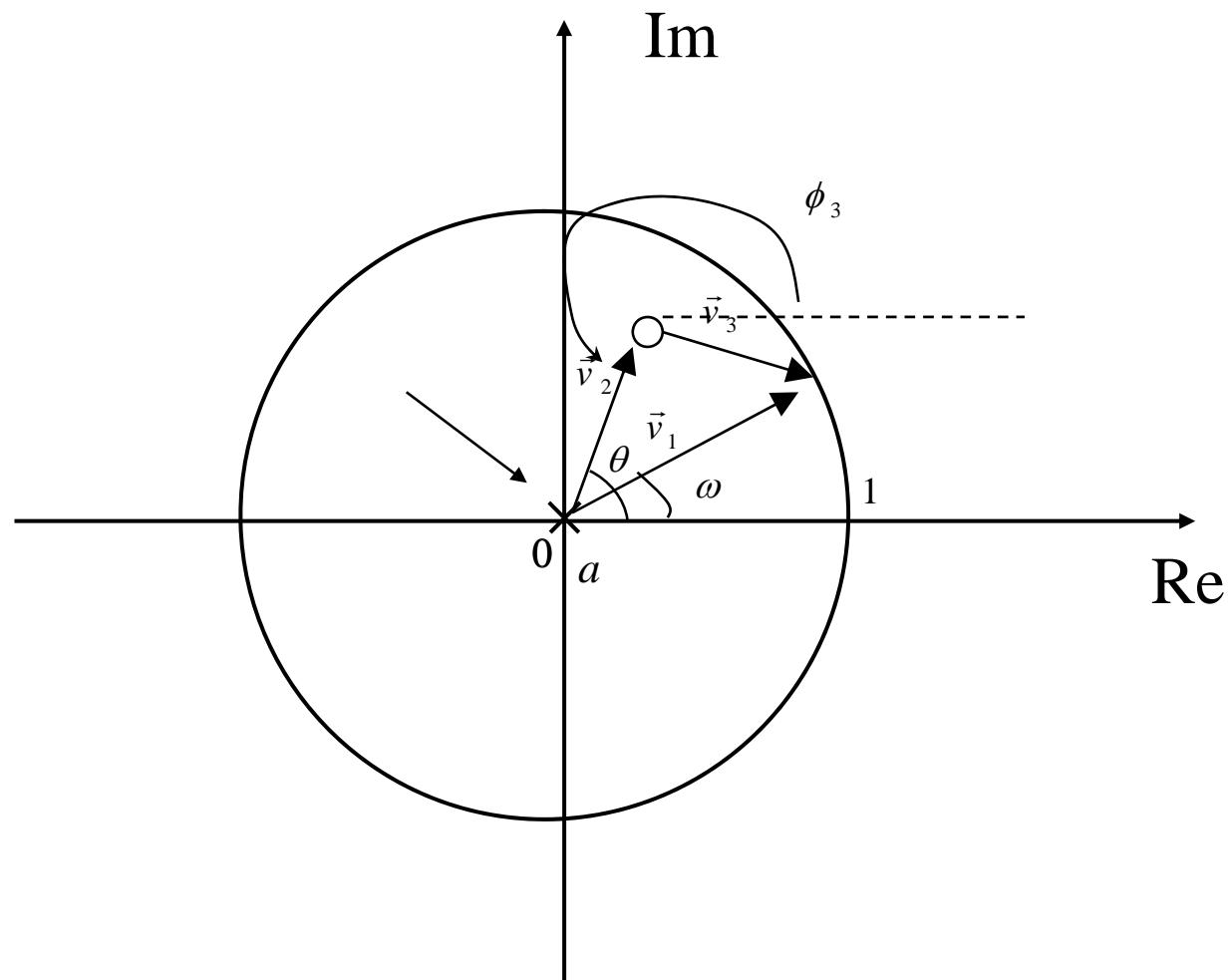
**Figure 5.16**



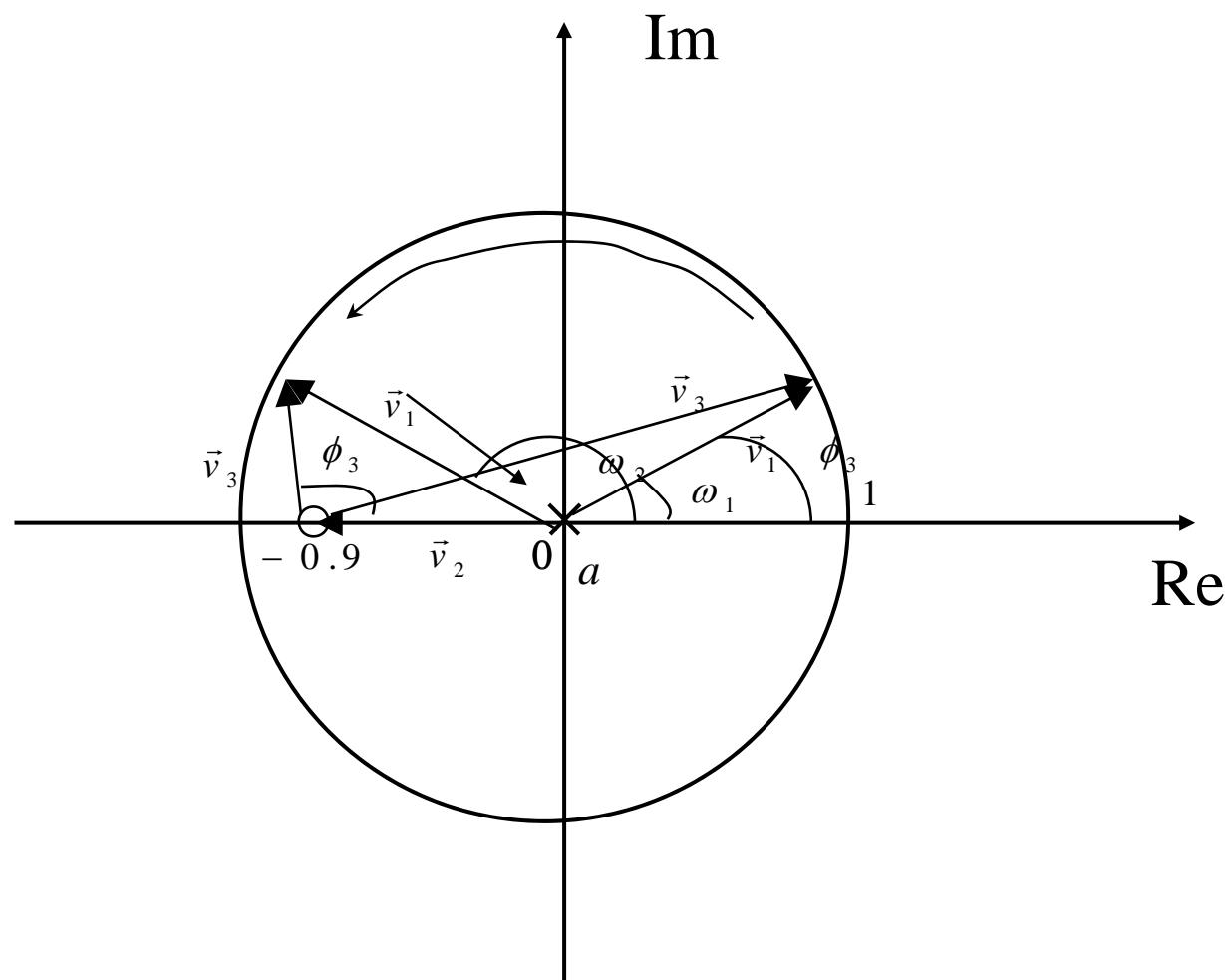
**Figure 5.17**



**Figure 5.18**



**Figure 5.19**



**Figure 5.20**