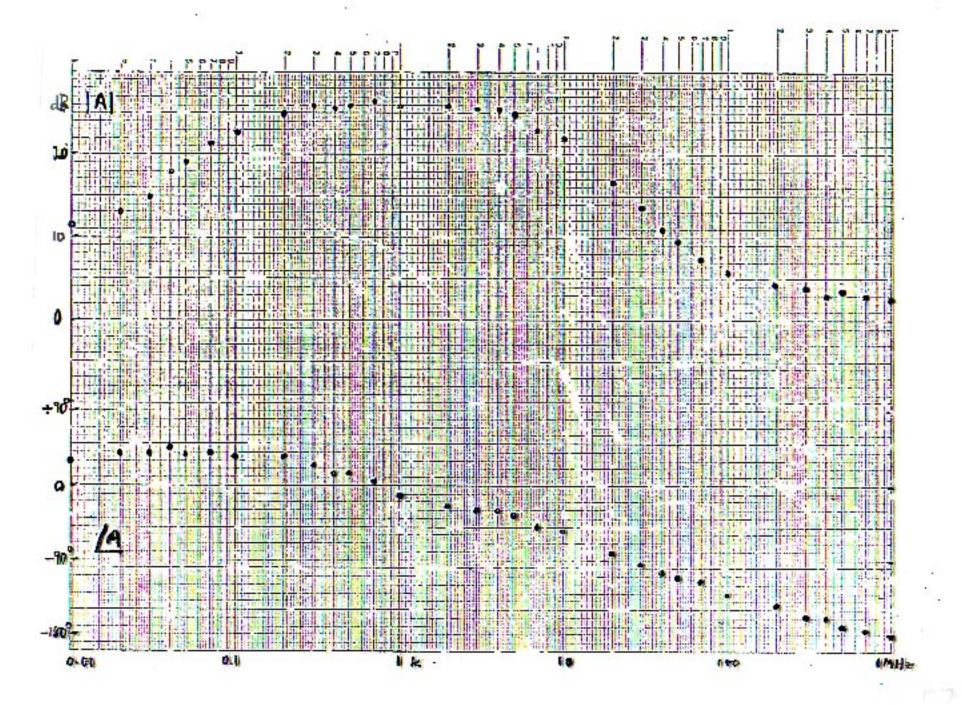
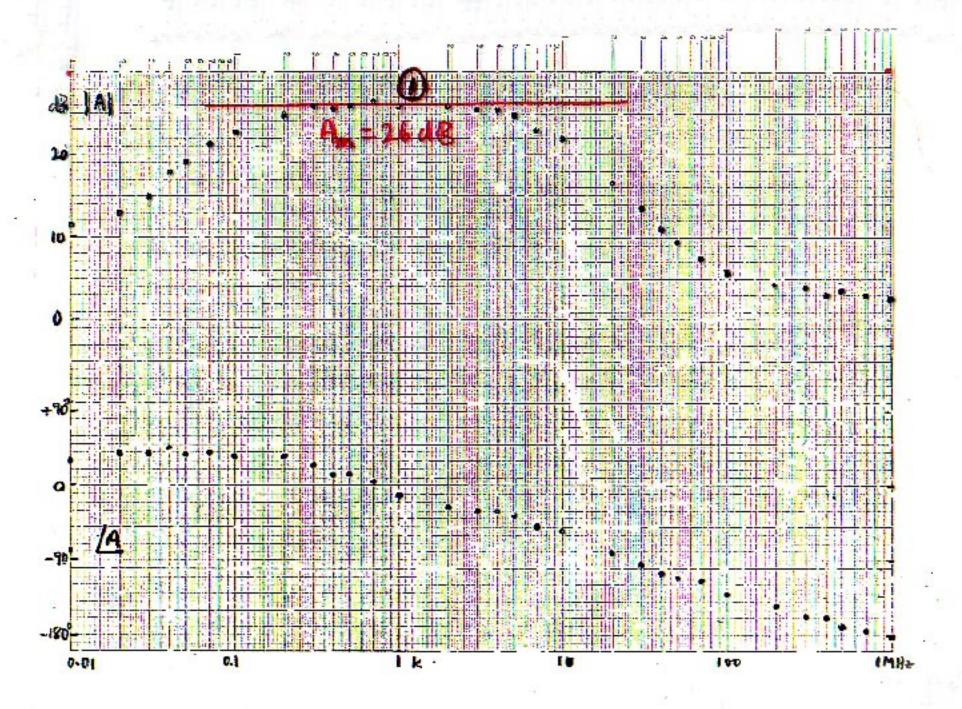
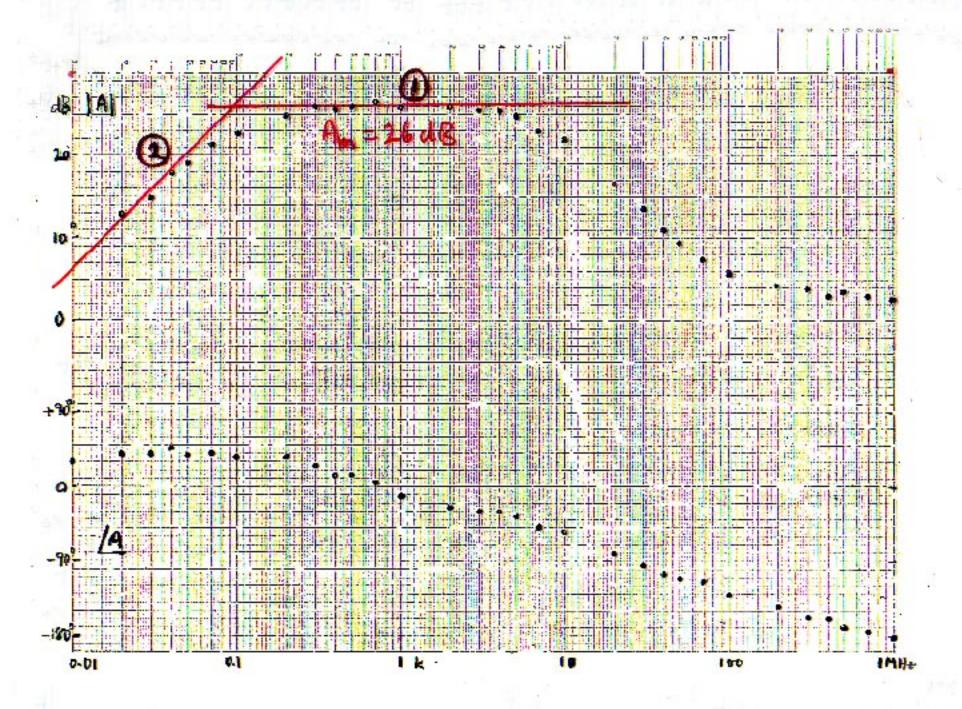
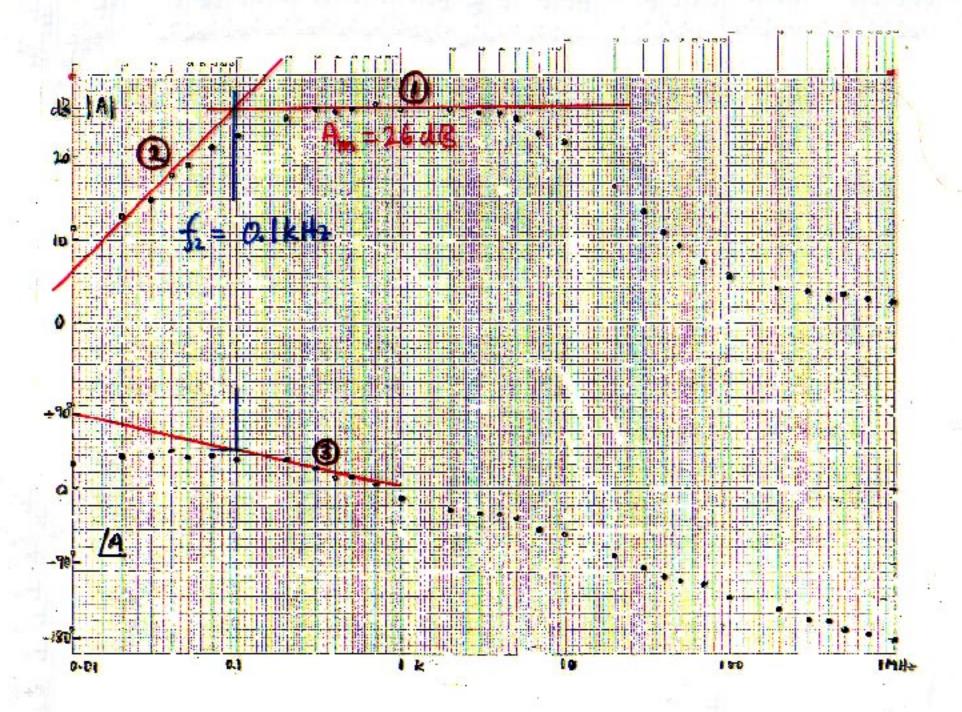
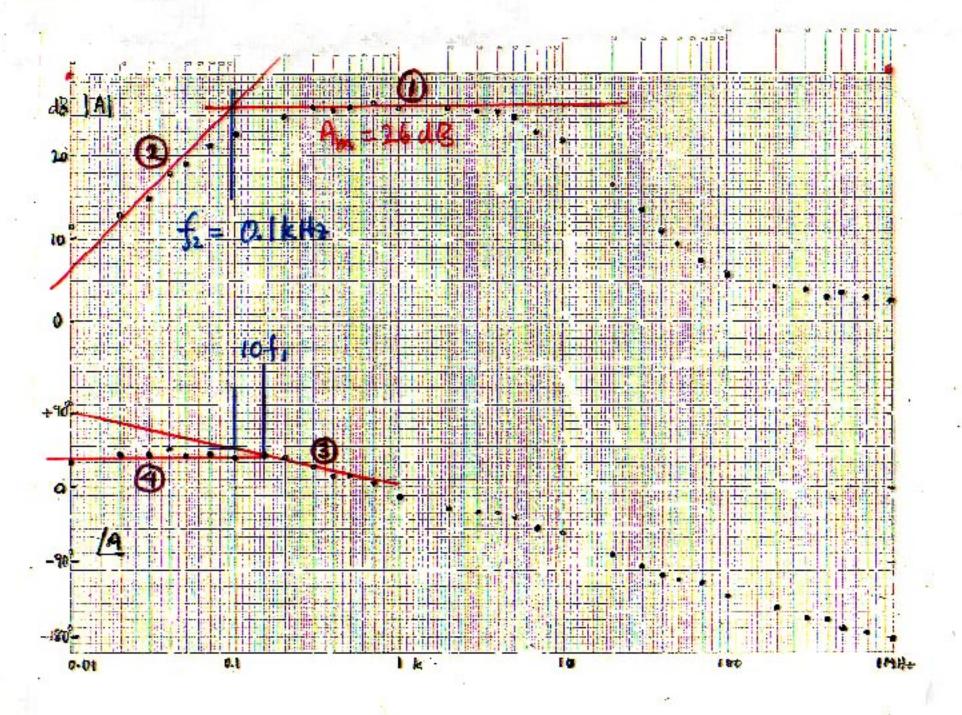
## EXERCISE 4.1 SOLUTION

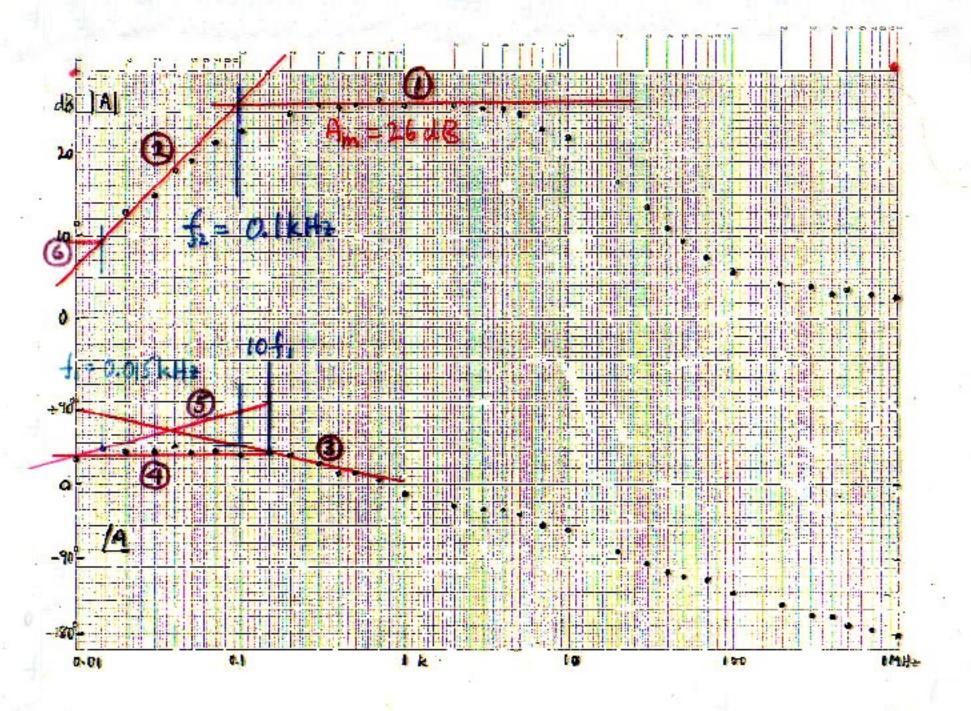


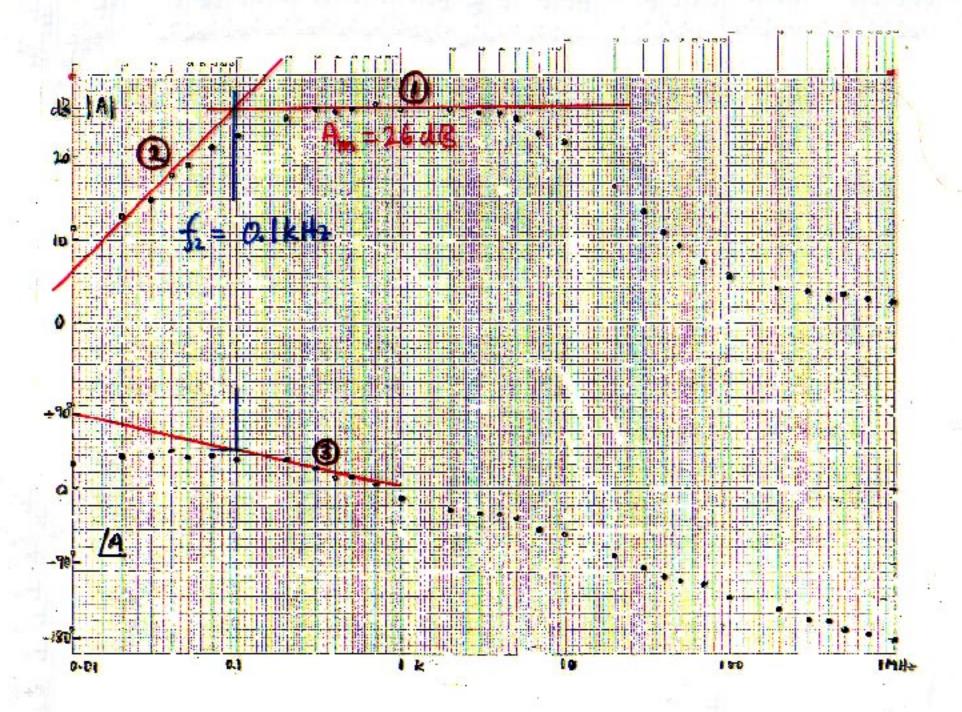


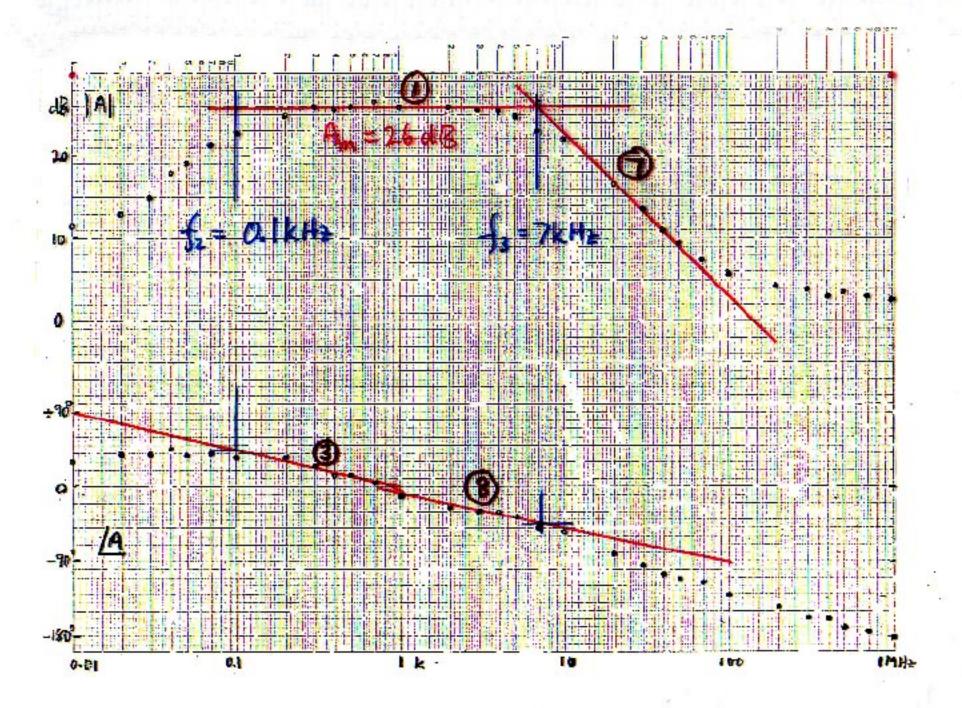


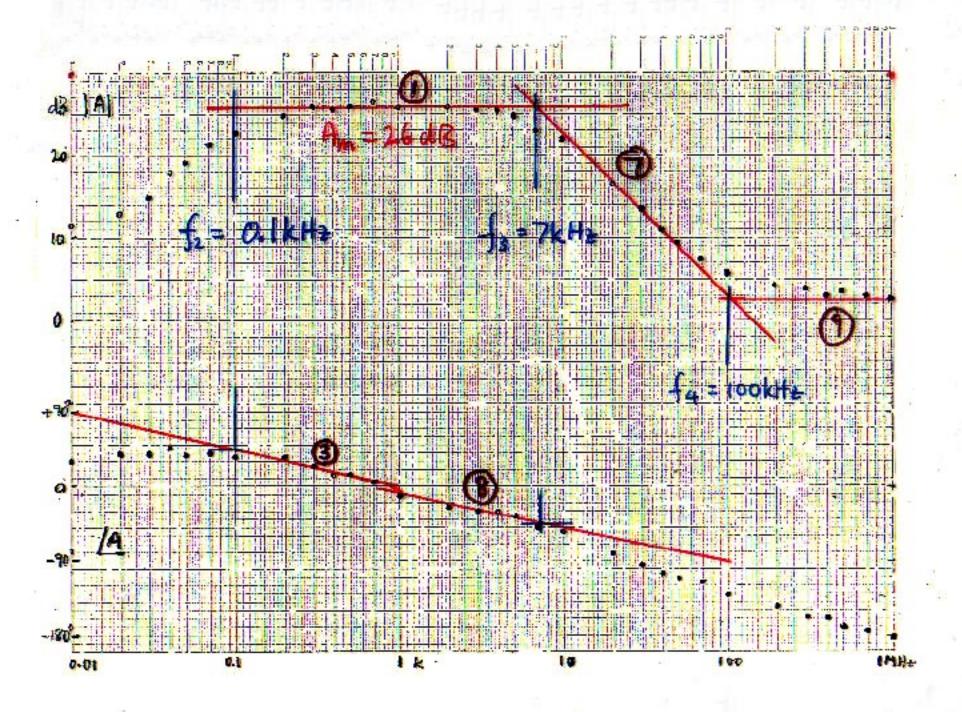


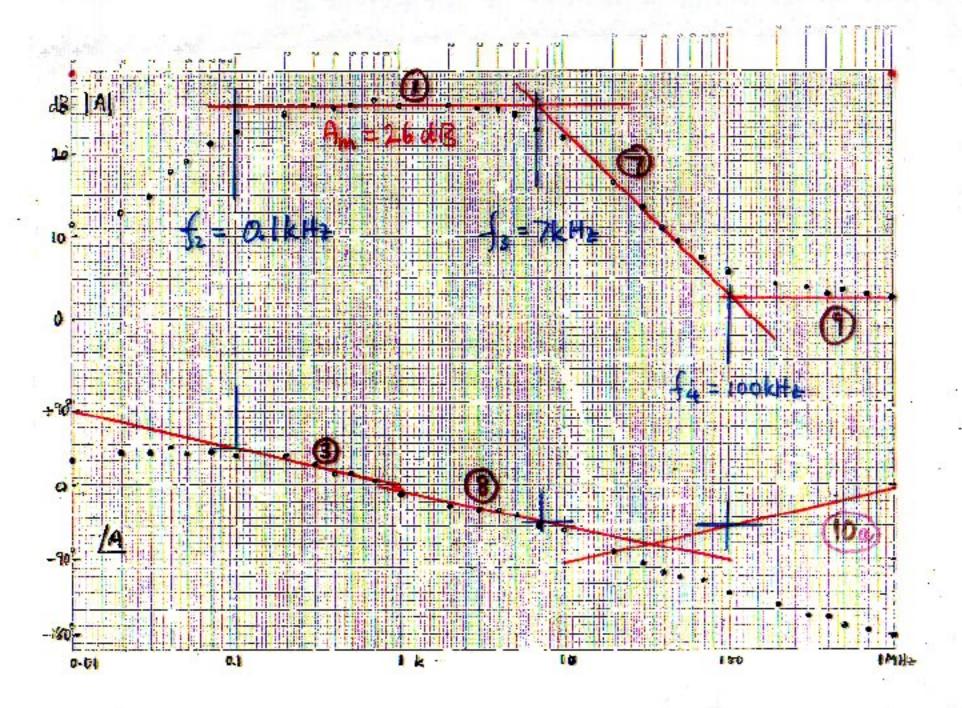


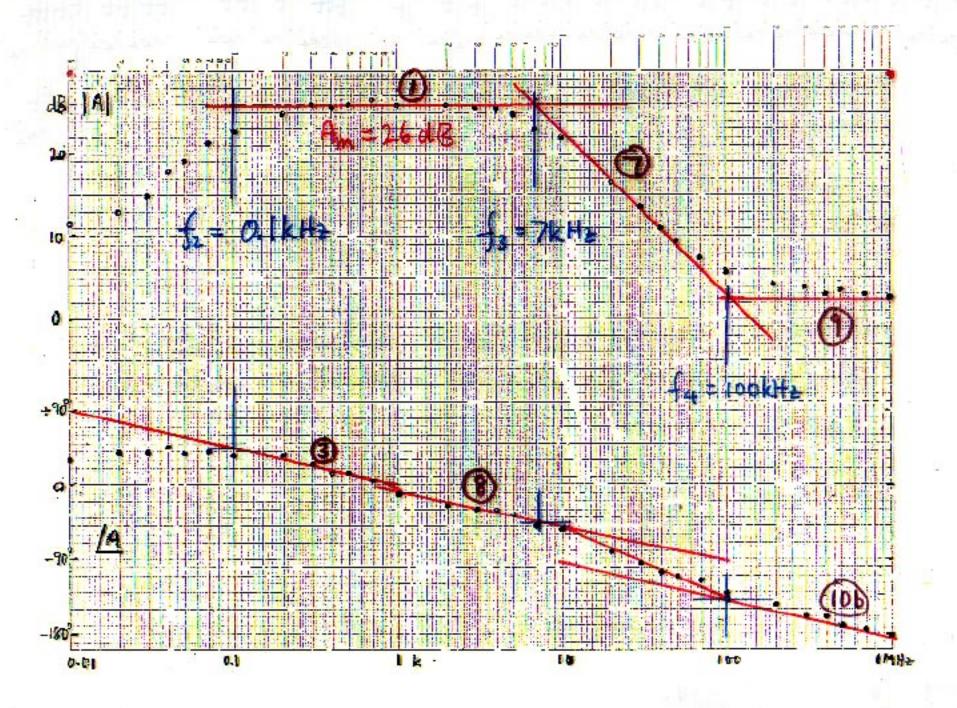












Graphical Solution sequence I dentity (1) Identify 0: fixes corner fr = 0.1kHt Drew 3 I dentity (4) as combination of a +450/dec slope with (3). Identify intersection of (3) and (4) at 0.15 kHz. Hence draw (5), which identifies corner fi= 0.015 kHz, and hence identity (6). Note that this process via A gives more accurate location of 6 than solely |A| would, since low-frequency magactude asymptote is not available. Identify (1); draw (8) Identity (9), draw (10a). Obviously (10a) is no good; but if invert to (10b) is OK. Hence analytic form is Note right haff-plane (thp) A = Am (+ 일)(1- 등교 f = 0.015kHz f= 0.1kHz (十學)(十二) t3 = 7kHz f4 = 100kHz Am = 26 db;

