

3.10.1 a

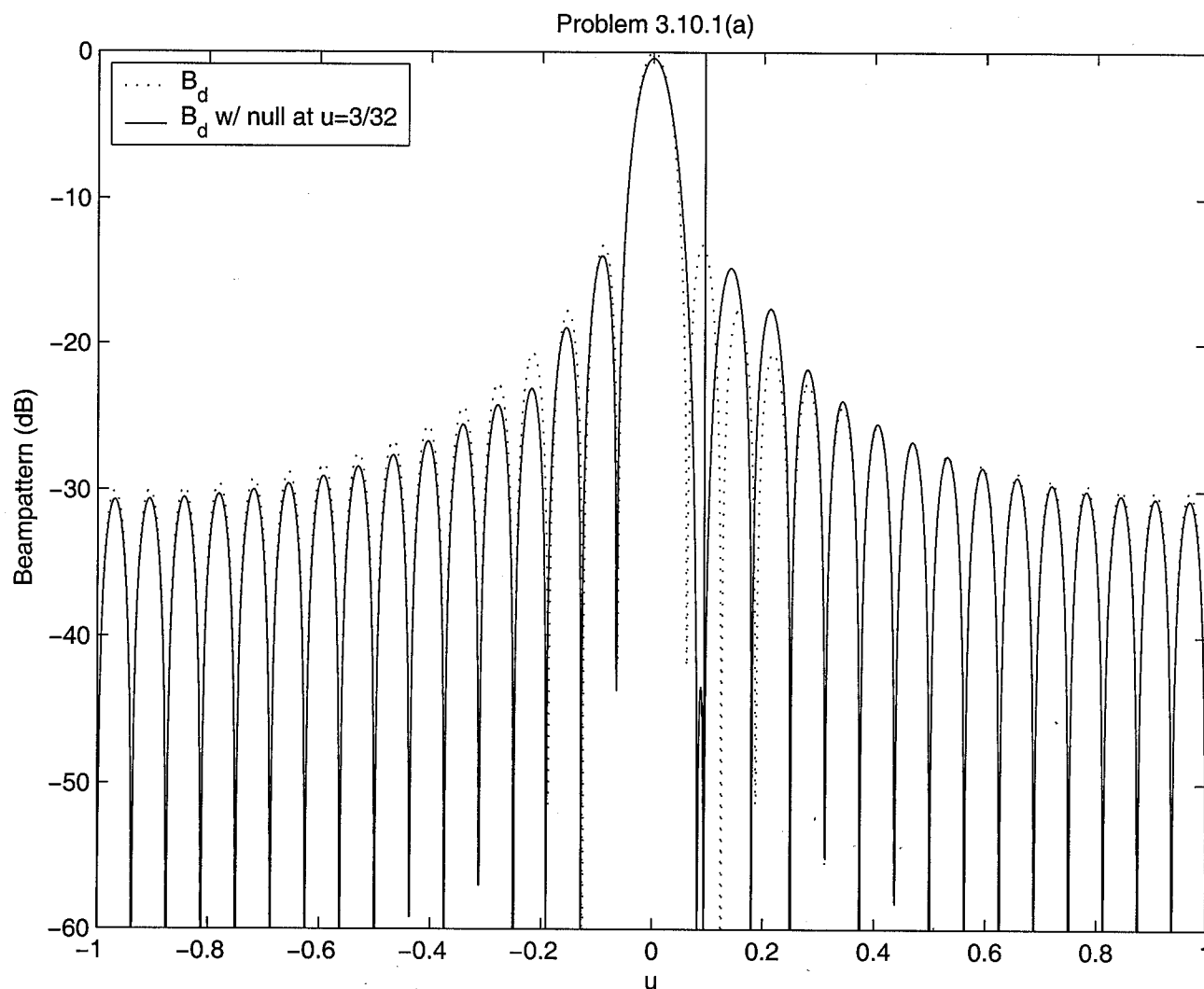
3.10.1 ①

$$w_d = v_{bs}(u=0)$$

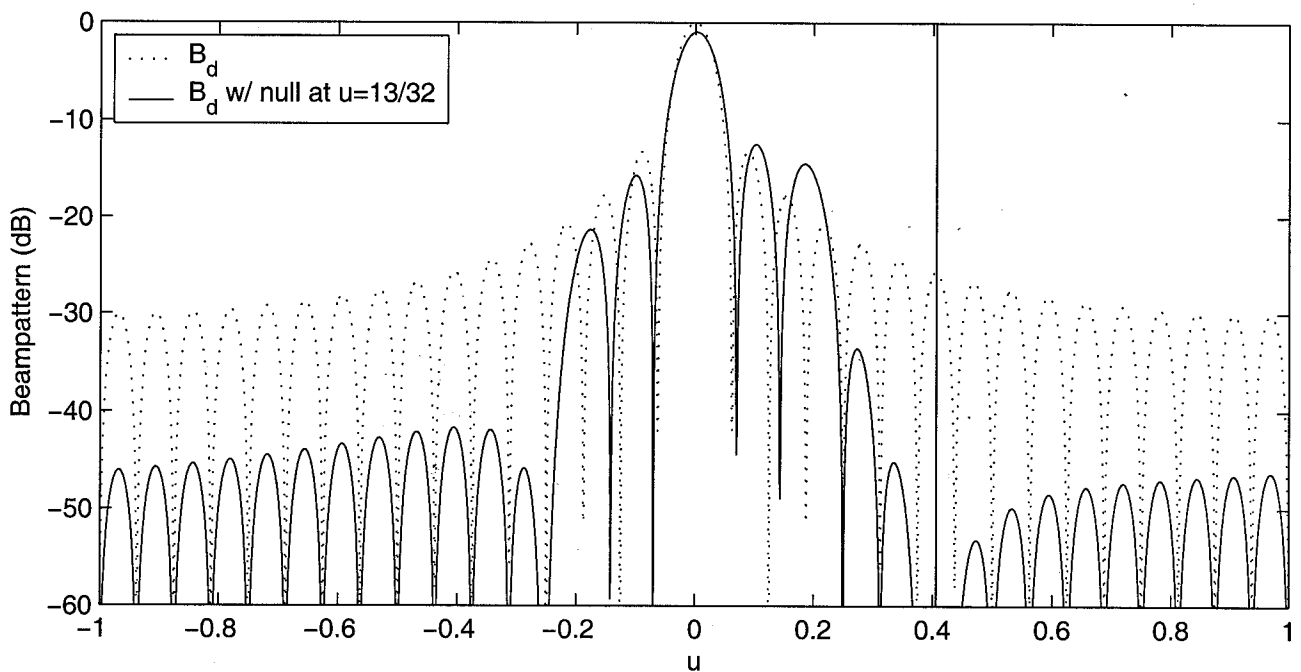
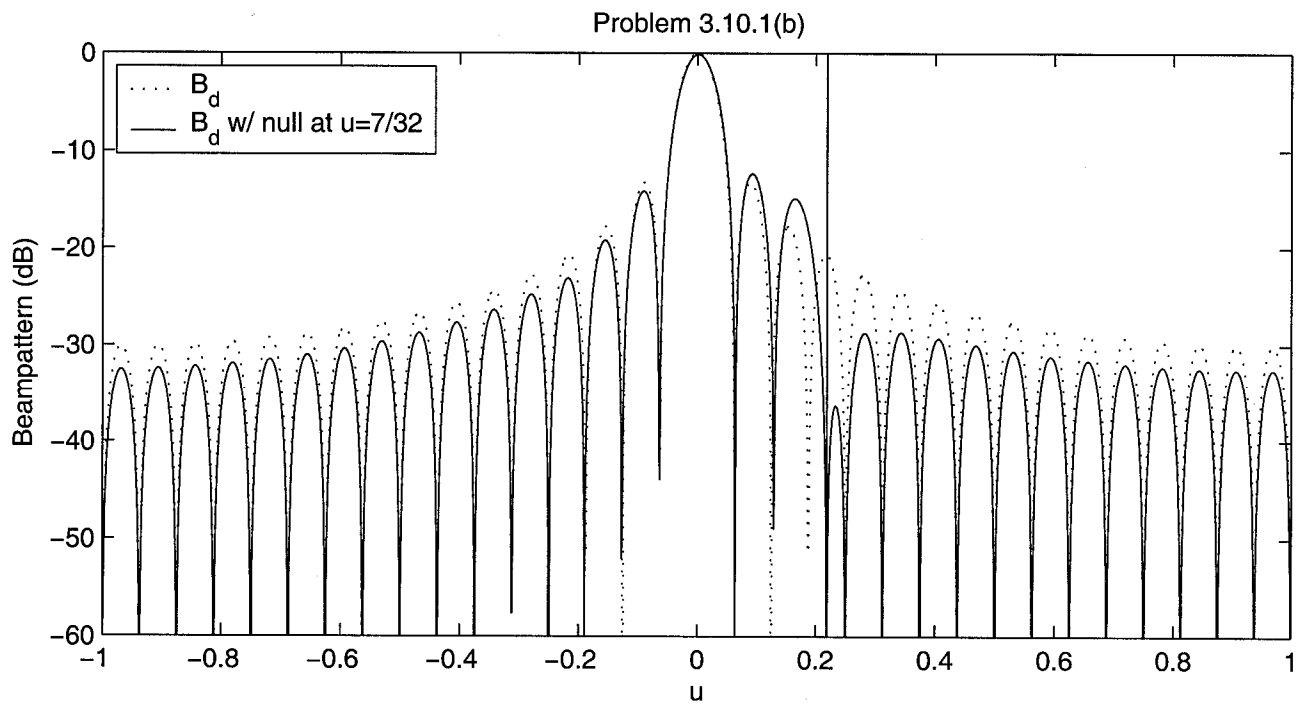
$$\text{Null constraint } c = v_{bs}(u=3/32), \quad P_c^\perp = I - c(c^*c)^{-1}c^*$$

$$w_n = P_c^\perp w_d$$

- Null within beamspace region causes little deviation from B_d .



- b) Nulls outside Beamspace region are harder to form, causing large deviations from desired pattern - have to suppress beam pattern over a large region to get the null. 3.10.1 ②



c) Steering causes large drop-off in sidelobes.
Null is formed with little degradation to B_d .

3.10.1 ~~3~~ ③

