0716074 实有于 Principle of network communication HW4 #1 (a) According to the formula, The loss for Bsi to Ms: Li= 69.55 + 26.16 log10300-13.82 log40-3.5.4+(44.9-6.55 log1040) log10 = 98,21 CdB) And then Bsj to Ms: Lj = 69,55 + 26,16 log300-13,82 log40-3,5.4 + (44,9-6,55 log40) log29 = 148.52cdB Hence, (tarpict) = (tarpict) > Pict) = 50.3 (CdB) = Pict) = 10×10 = 10014×10 w (b) A BSi Li = 69.55 +26.16 log300 - 13.82 log40 -3.5.4 SI + (44.9 - 6.55 109 40) log10 28 = 148 (dB) Bsi Li = 69.55 + 26.16 109300 - 13.8 10940-35.4 + (44.9-6.55 log40) log2 = (08.56 (dB) Gt 4r Pitt) - Gt (r Pitt) = | > 111 > Pitt) = -38,44 CdBJ > Pitt) = 10.10"= 1,432 x 10" W #2 $\alpha = \lambda T = \frac{60}{3600} \times 3600 \times 5\% = 3$ Erlangs 会發現缺四門只能 接受9 cells的 cluster Tell 栅法衣良放入 #4 (a) each cell is distributed: (12.5 CMHZ) -20)=9 = 44.074 (channels /cell) (B) 4 Area = $\frac{13}{4}R^2$. $6 = 8 \Rightarrow R^2 = \frac{16}{3\sqrt{3}} \Rightarrow R = \frac{4}{3}\sqrt{3}$ Hence, Reuse distance: D= J3N·R= J3.9、\$ \$ =43.5 = 9.116 ckm) #5 六角形的中心到边:望R

Reuse distance = 4 × \frac{13}{2} = 2 \frac{1}{3} = \int 12