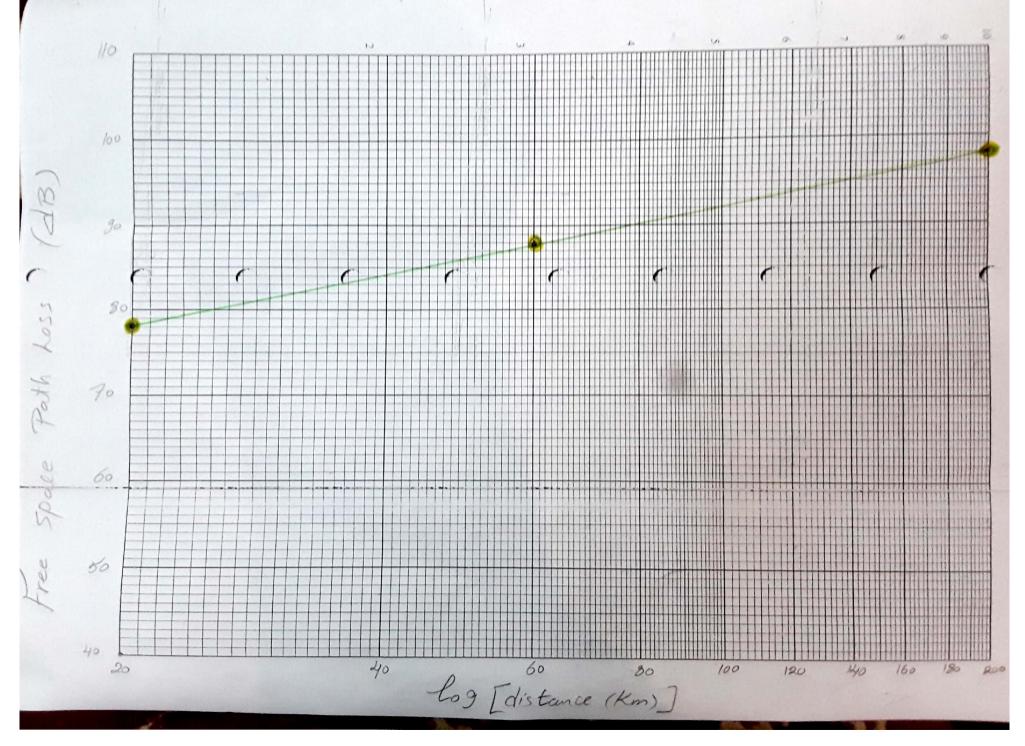
Task 0 Dr. On Sy " Wireless Communications Part 0" Asmaa Gamal Abdel-Halem Mabrouk Nagy ا سماء حال عبد الحليم مبرول عاص ID: 15010 473 - Question Draw the Lys graph as a function of d@ 10 11-112 Using d'in Semi log scale Paper · ("Hint") tit's a linear relation (50Lm) 1 L = 32.44 + 20 log d + 20 log & LFS = 52.44 + 20 log d = 78 dB 2/ (a) d= 20 Sketching : > L = 88 dB in the = = 98 dB next d = 200 Semi - log Scale Paper



repeat if (f= 600 MHZ) $L_{FS} = 32.44 + 20\log(d) + 20\log(f) dB$ Task: Draw the graph of L_{FS} as a function of d at $600 \mathrm{MHz}$. Hints: d o semilog scale line \rightarrow straight line $L = 32.44 + 20 \log (d) + 20 \log f$ $(d8)^{\frac{1}{5}} = 88.003 + 20 \log d$ $L_{FS} \simeq 88 + 20 \log d$ L (dB) 88 108 128 148 168 186 208

