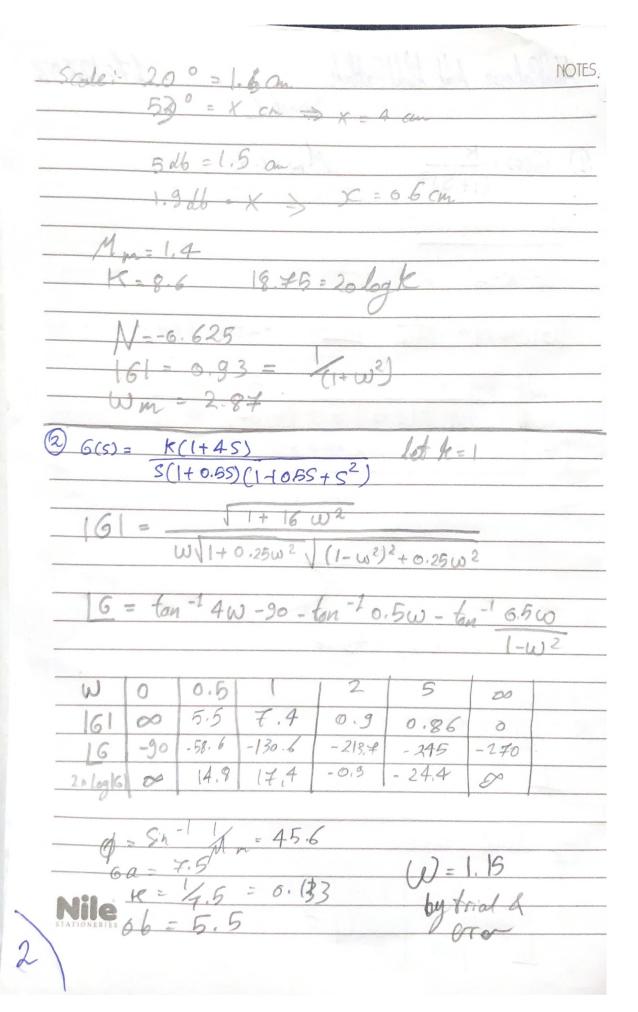
AboleRahman Adel Aball Fattah 17012298 Sheet 7 (1)  $G(s) = \frac{K}{(1+S)^2}$ Mm=1.4 Using Polar Plet: let 4=1 6(s)= (1+5)? G(JW) = 16(TW) = -2 tan-1 W 0.8 0.5 0.2 -53 -126 -180 Sin (Mm) - Sn (-) = 45.6 1+w2=0.12 => Wm=2.7 Using Nichols Charts: 0.5 | 2 5 -1.9 -6 -14 -28 |-53 -90 -126 -1576

1



20 log k = -18, 4379 K = 0.12 NOTES 20 log R |61 = -4.10625 => 161 = 5.22

12