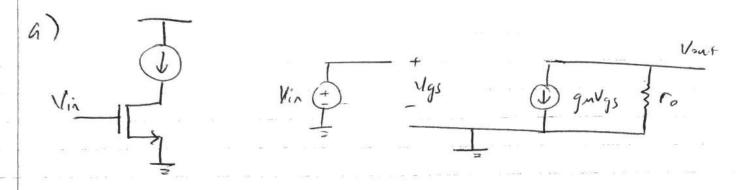
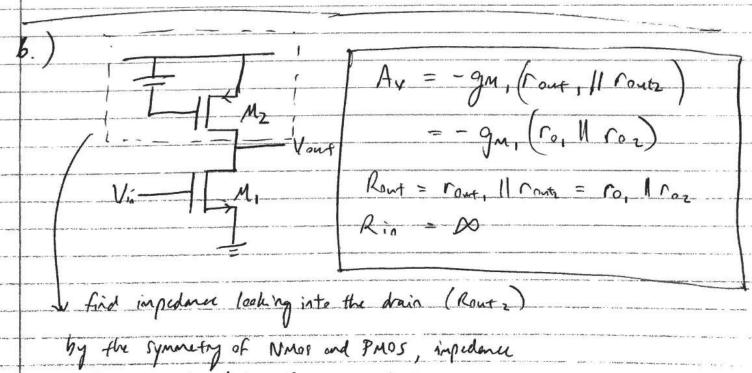
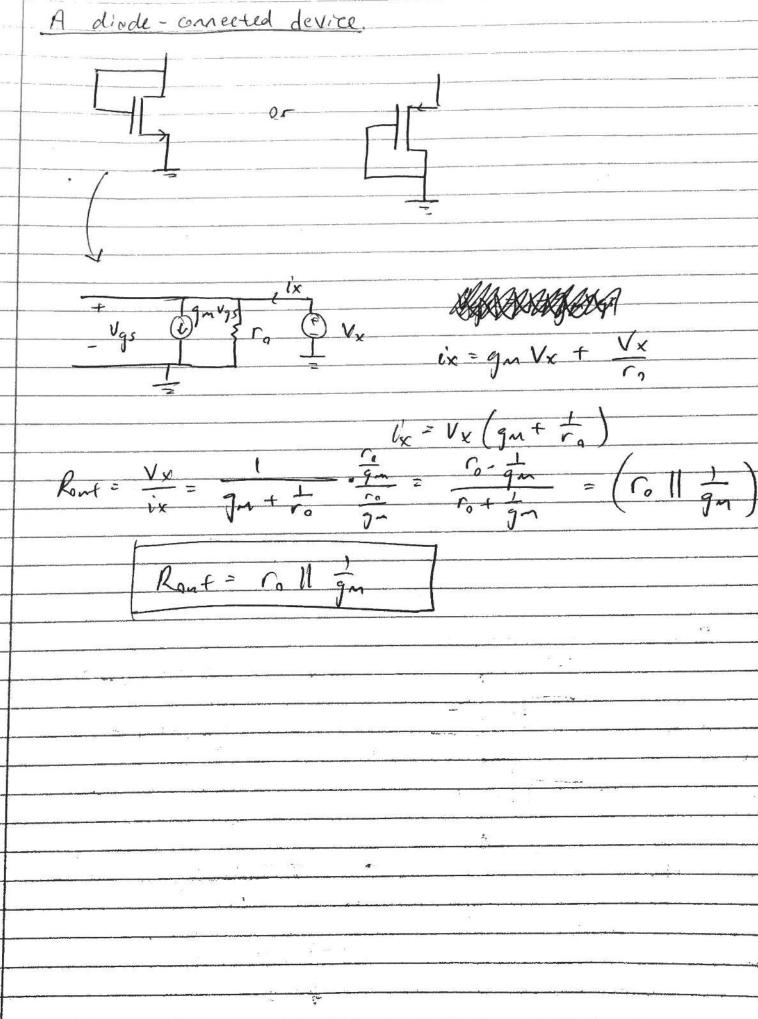
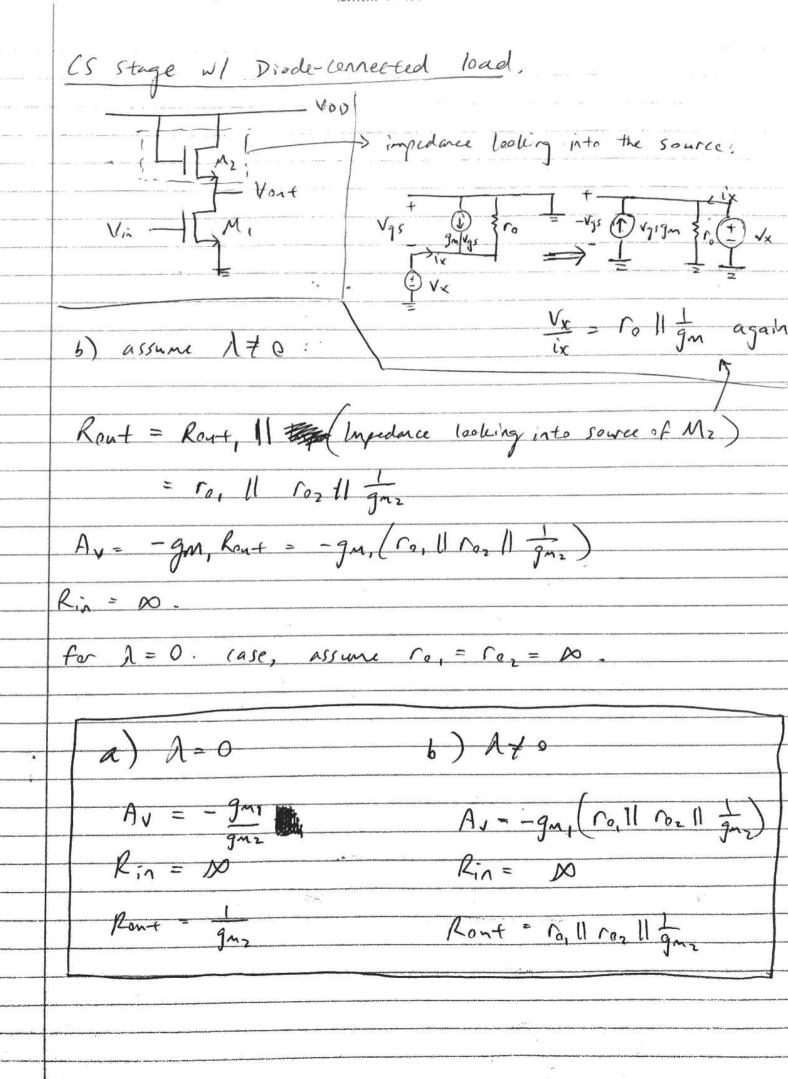
Common-Source Stage. W/ current source load

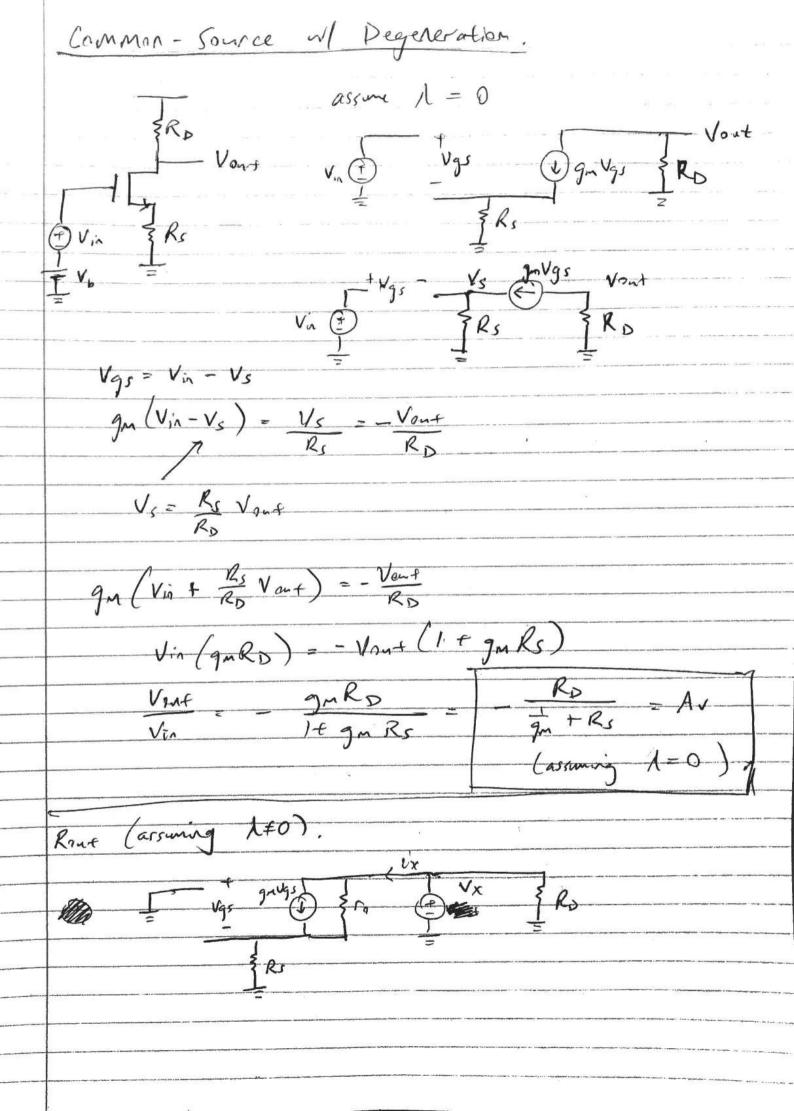


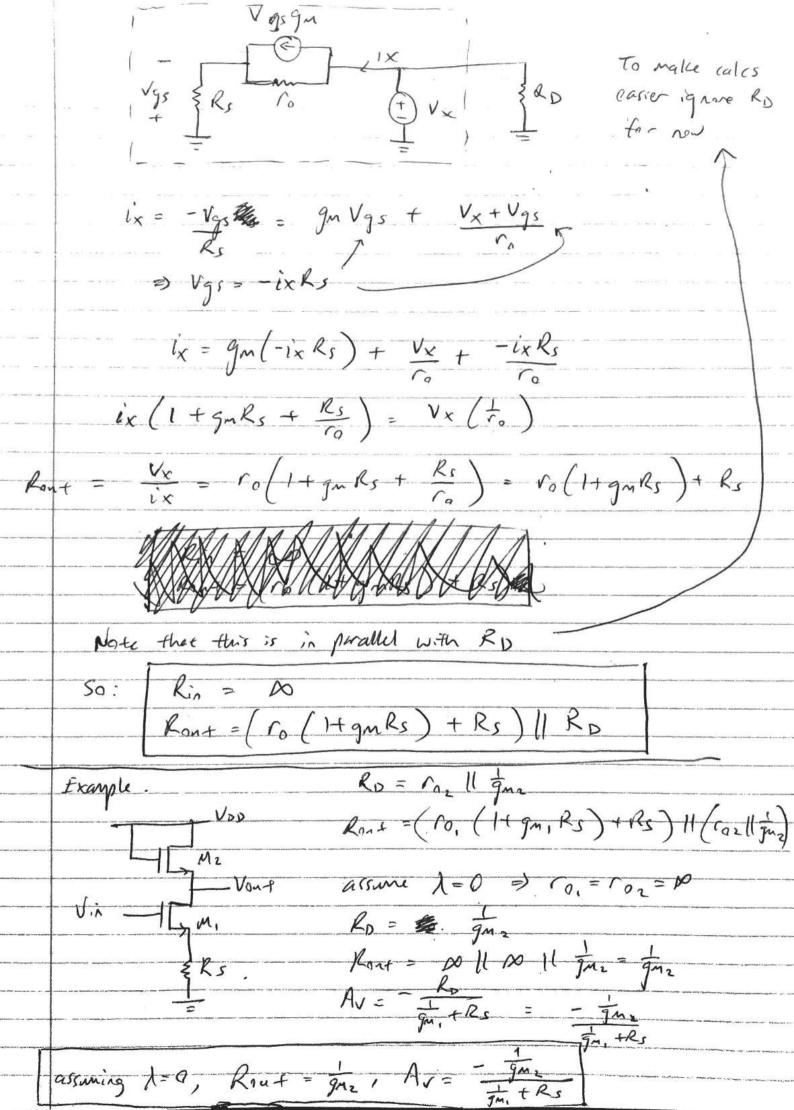
looking into the dain Rout = 102

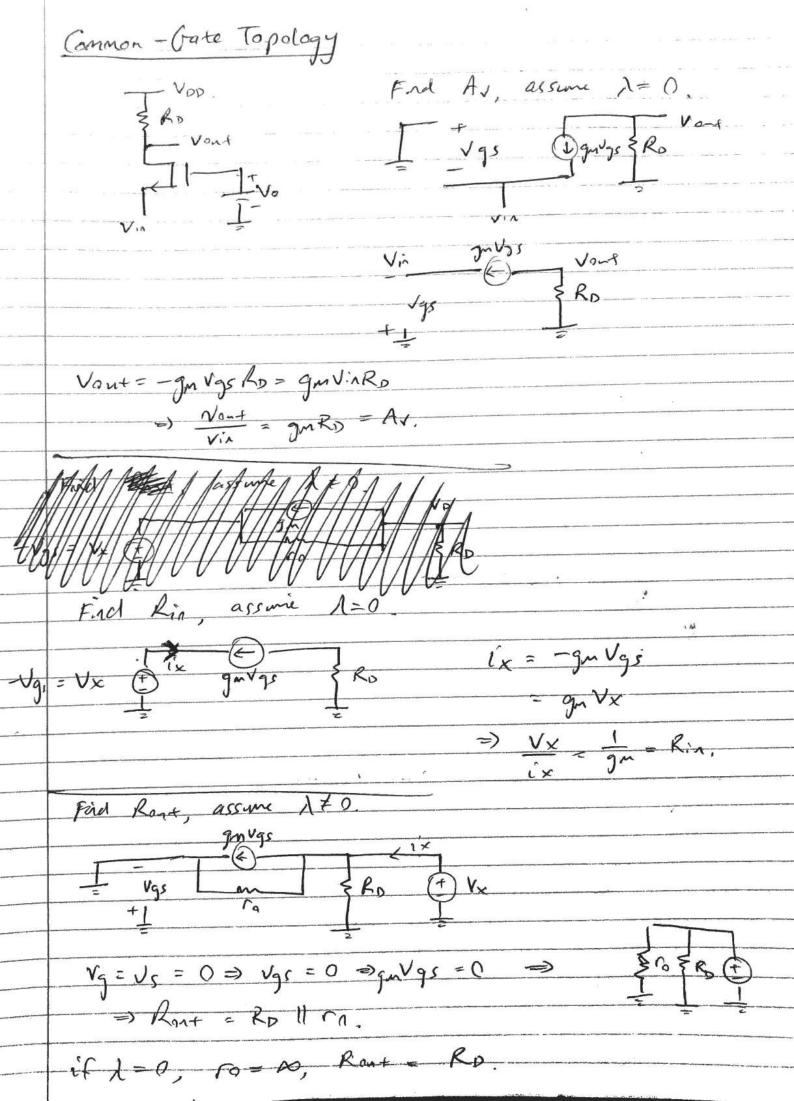


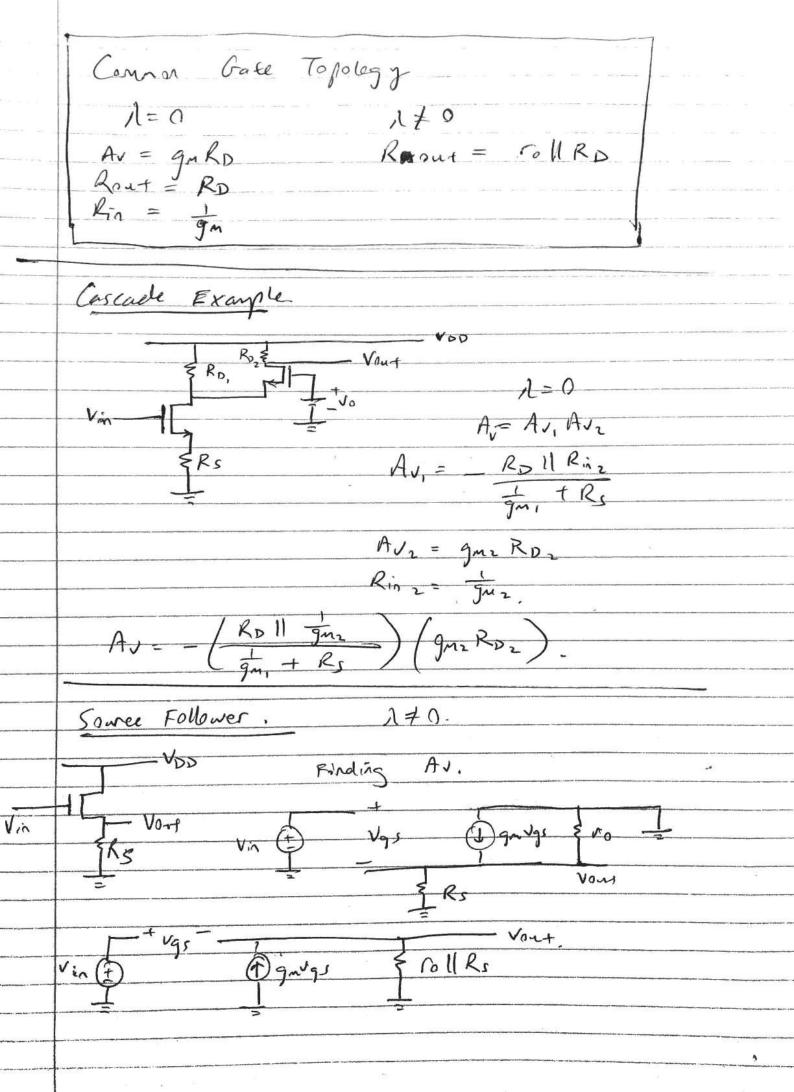












Vout = gm Sqs (Rs 11 ra) = gm (Vin - Vout) (Rs U Ro) Vant (It gm (Rs Il ra)) = Vin (gm (Rs Il ro)) Av = Vour = gm(Rs 110) = Rs 11 ra Vin = 7+ gm(Rs 110) = 1 + (Rs 110) gm + (Rs 110) Rin = D. Finding Rin, 1+0-Finding Root, Ato. I dangs Erstro DVx Vgs = - Vx guvz Rs Hro DVx impedence of current source is parallel ul resistance Lour = gmll (Rsllro) Source Follower b) 170. $Av = \frac{Rs U ro}{\int_{-\infty}^{\infty} dr} + Rs U ro$ Av = In + Rs R:n = 10 Rout = gm ll Rs llro Ront = gm URs

