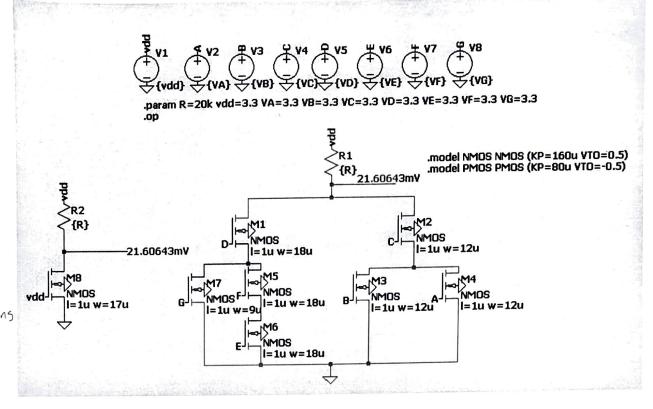
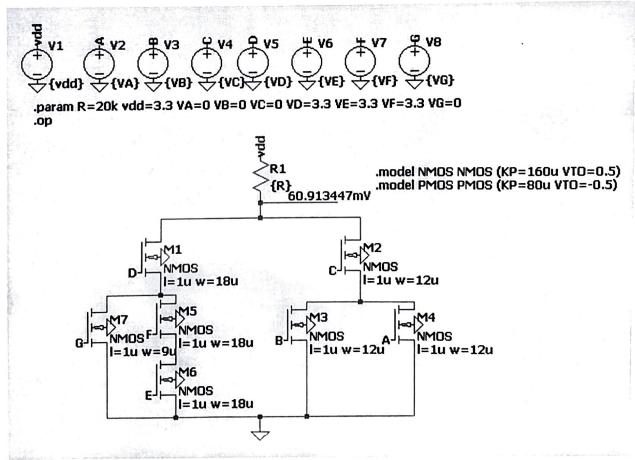
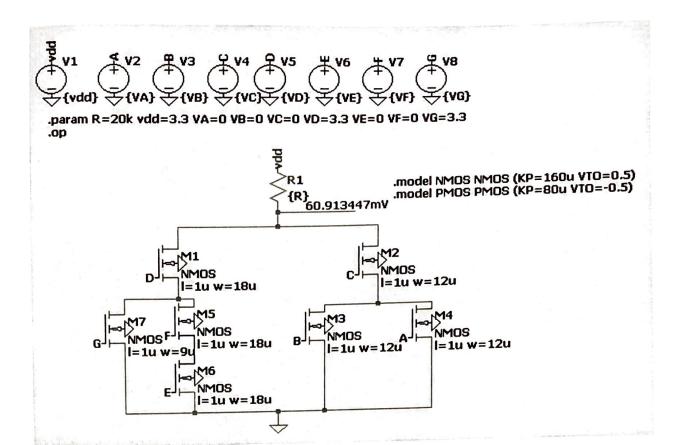
Cabrel Emerson glesson (Amplex HU) ox
$$\frac{3}{2}$$

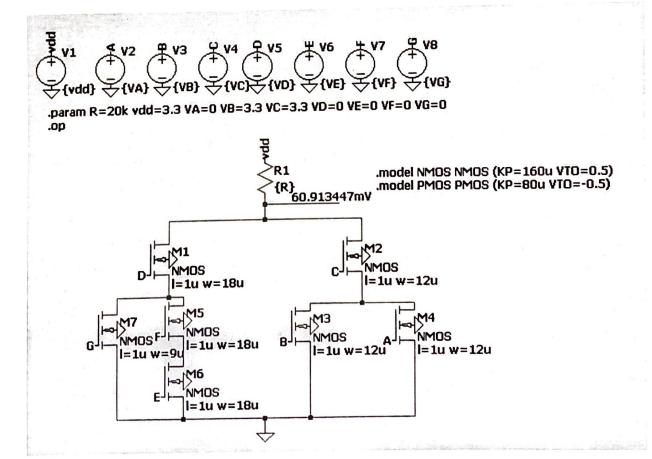
1.) $y = (C_1 + FE)D + C(B+A)$
 $y = \frac{3}{4}$
 $y = \frac{3}{4}$
 $y = \frac{4}{4}$
 $y = \frac{4}{4}$

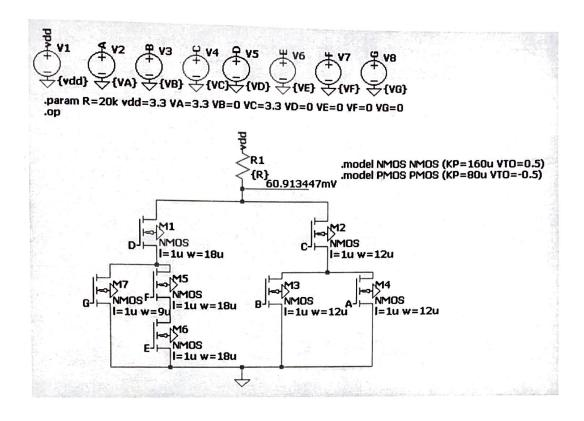
Gabriel Emerson gte0002 Complex HWI Die 3/21 7.85 a.) y=[A(B+D)+G](C+E)+F b.) Nmos=2(=)=4 Pmos=2(=)=19 E-GIP F-54 C- 26.67 E-0 26.67 A 20 C.) B+D==4 (B+D)+A==4+1== [(B+D)+A]+6=14 nmos (+E=17+19=24 (C+E)+14=8.84 8.84+F=12.8 Pmos C+E= 13.4 B+D=20 A+BID= 20+ 20= 40 C/E+G/A/B/D= 13.4+ 20=33.4+40= 18.2 7.86 a.) y= EF+CD+AB 2.50 b.) cd) Nmos: AB->4+4====CD=EF ABLDEF= = = + = + = = (4) nmas PMOS: ABC+ DEF = 15 + 15 + 15 = 5 ABCDEF= = = + = = (19) pmos

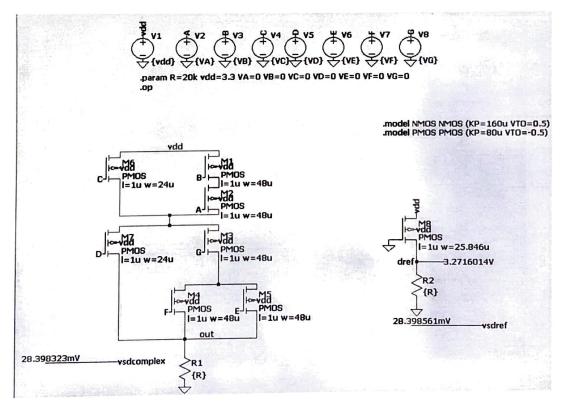


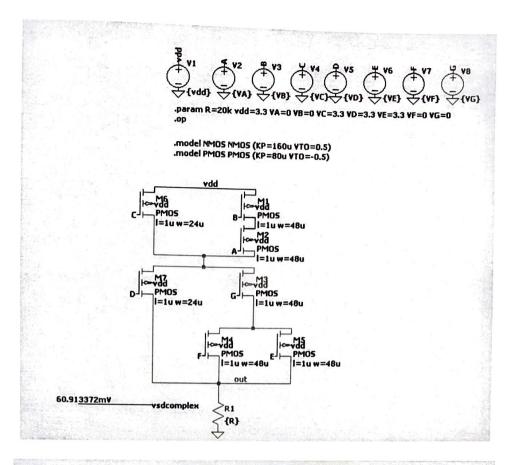


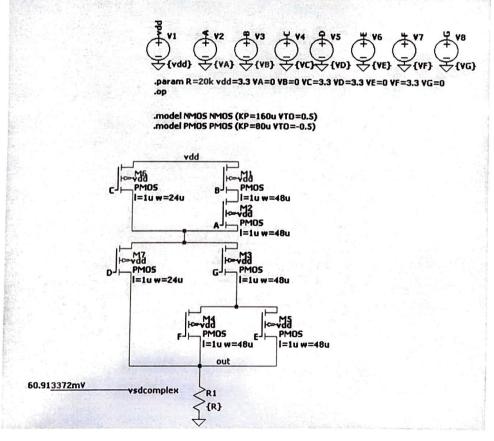


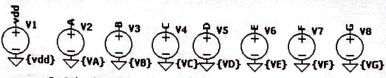












.param R=20k vdd=3.3 VA=3.3 VB=3.3 VC=0 VD=0 VE=3.3 VF=3.3 VG=3.3 .op

.model NMOS NMOS (KP=160u YTO=0.5) .model PMOS PMOS (KP=80u YTO=-0.5)

