$$I_{0} = \frac{k_{0}}{2} \cdot \frac{W}{L} \cdot (V_{GS} - V_{Thp})^{2} \cdot \left(1 + \frac{V_{OS}}{VA}\right)$$

$$0.2 \text{ mA} = \frac{k_{0}}{2} \cdot 10^{-6} \cdot \frac{20}{14} \cdot (V_{GS} + 0.8)^{2} \cdot \left(1 + \frac{V_{OS}}{40}\right)$$

$$0.5 = (V_{G} - 3 + 0.8)^{2} \cdot \left(1 + \frac{V_{0} - 3}{40}\right)$$

$$V_{D7} = V_{S1} = V_{S2}$$

Yours Erre ERYILMAZ 06018076 ye 9mg=9mg= 12.40 p. 14.0,2.m= 5,65.10.45 on, = 12.40 p. 28. 0.1 m = 5,65.1045 3-2= gry 3n3=3n4=12.80µ.7.0,1m=4.10-45 1) Nin2=0 3n3=3n6=12.80µ.20.0.2m=8.10-45. Alu = Vo1 = Vd5 . Vd2 . Vs1 Tdia = rds = 200 652 (dil= 1 ds+ m. 1 ds+ 1 ds+ 1 ds+ Adz = Voz = Vdb , Vd1 TAS1 = 400 652 This = VSI ~ 2mi (dsz / 1+ 9mi (dsz Vd5 = - Jm; (18 Vd2 = 3m2. 1 Von y gm. (des) (-gms. (des). (2m2) Vd1 N - 9m1. 7m3 Vd6 = -3m6. (dis Ad21 = No2 = - gen - 1 - gm . (- gm 6. (dis)

1:11=0

Vo1 = Adzi. Vinz + Adai. Vin1

Voz= Adzn. Vm+ Adm. Vinz

2) A TRACTOR OF CARLE.