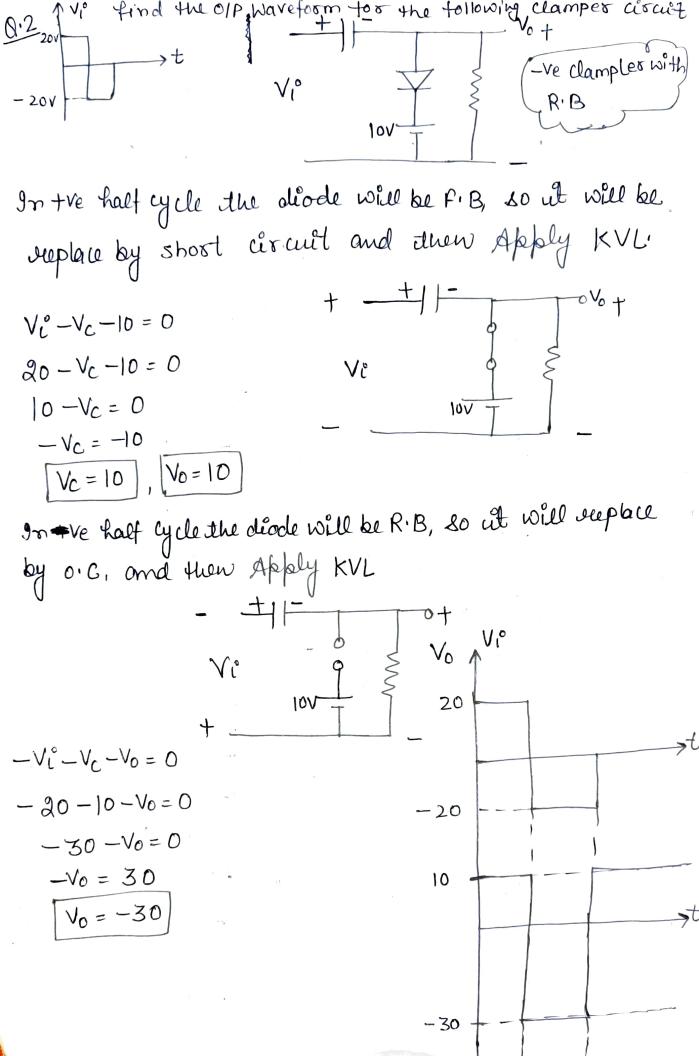
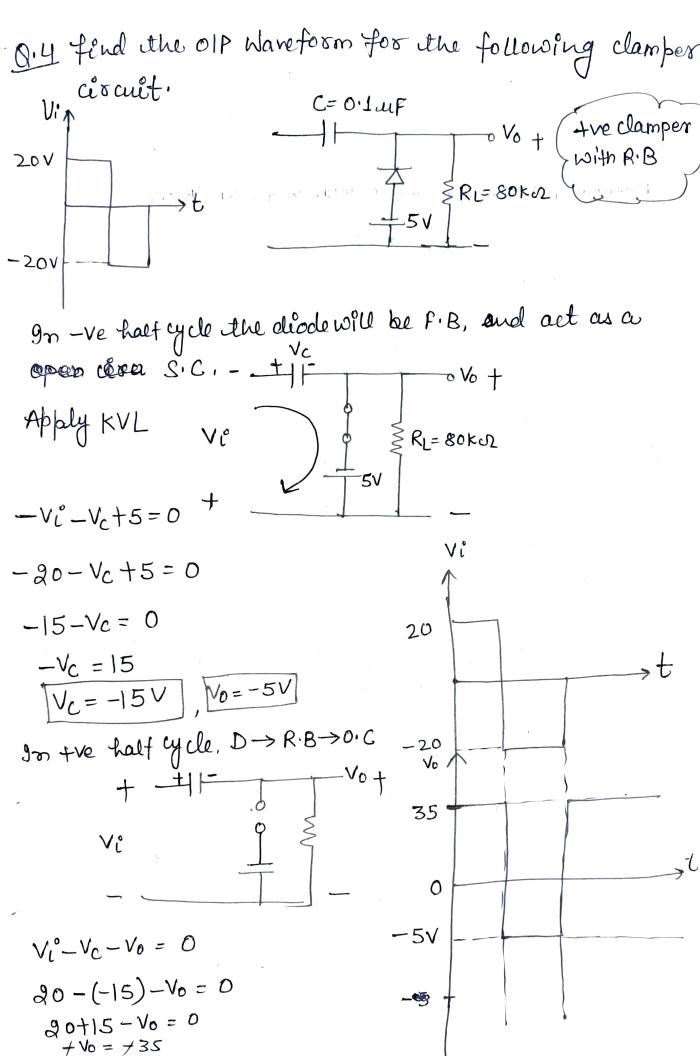
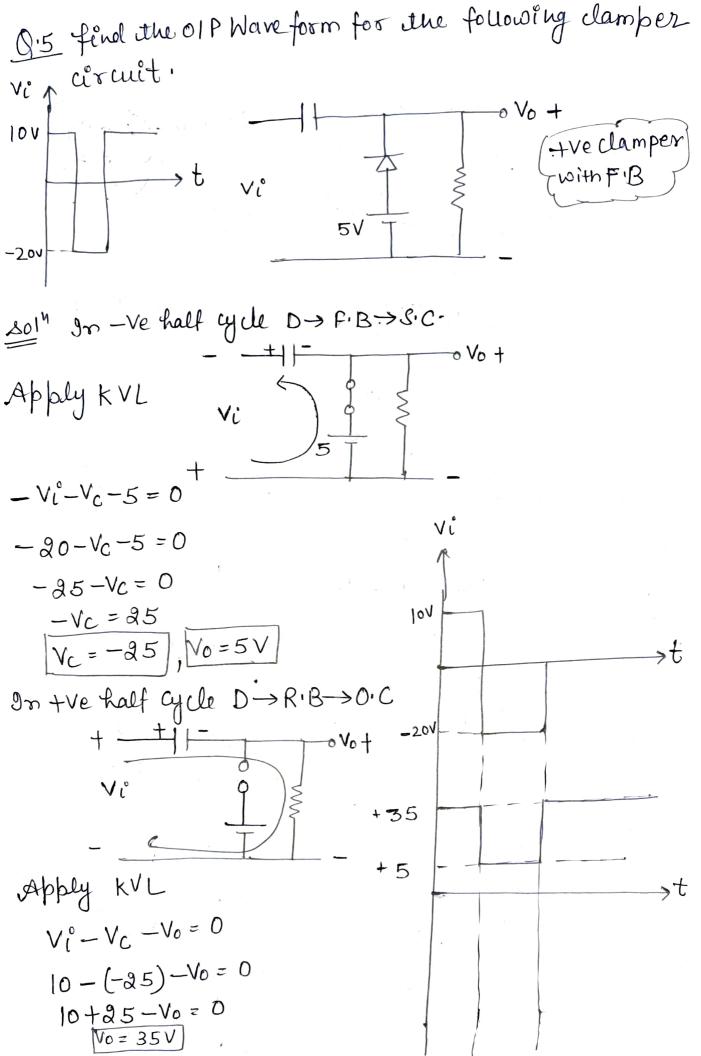
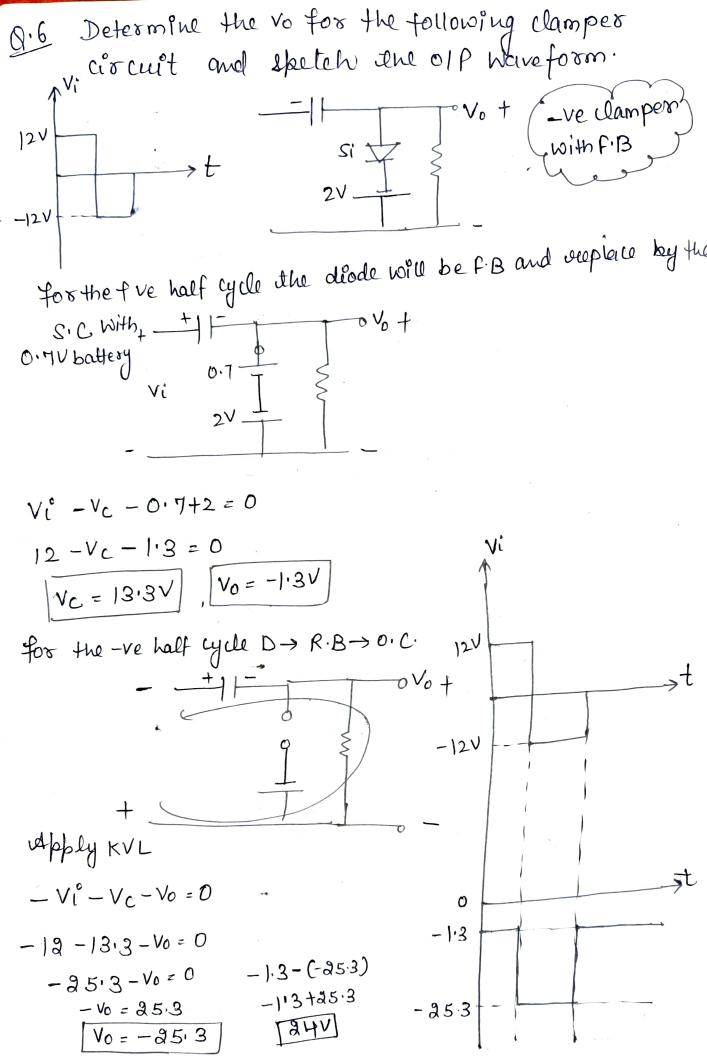
Determine to for the n/w of fig. for the Input Indicated 20V posétine clamper with 104 -30V In-ve half cycle the diode is F.B. so it will be replace by a short circuit. - Vio-Vc +10=0 -30 -Vc +10 = 0 $-20 - V_C = 0$ $-V_{c} = 20$ $V_{c} = -20$ $V_{o} = -10$ In the half cycle the diode will be see R.B. so ut will replace by o. C, and then + - + | Apply KVL 201 $V_{l}^{\circ} - V_{c} - V_{o} = 0$ 30+20-Vo=0 -304 40.50 -Vo = 0 40-Vo=0 100 40° No 2 250 +V0=+40 V0= 000 Vo= 40 -10V



Determine vo for the n/w of fig for the 31P Indicated o Vo + Ive clamper with F.B R L = look se -101 2V In the half cycle the diode is F.B, so it will replace by S.C Vi $V_{i}^{2}-V_{c}-0.7+2=0$ W dette $V_{1}^{o} - V_{c} + 1.3 = 0$ (3) Tel=00 10-10+13=0 11.3-1/2=0 tra-eto VCC DOO $-V_{c} = -11.3$ $V_0 = -1.3V$ Vc = 11.3V In -ve half cycle the déode is R.B, so it acts as O.C -Vo + 101 Vio -101 - Vi - Vc - Vo = 0 -1.3 -10-11·3-Vo=0 ート3 - (こかろ) -31.3-40=0 $v_0=-31.3V$ -113+2013 20 -21.3-







sketch the output Waveform for the following clamper via Ciomit. 0 Vo + -ve Clamper -with RB JOV Vi **→** t 41 -101 for the tre half cycle the Diode -> foB -> S.C. + -41 t ov o ٧ů 40 $V_1^{\circ} - V_C - 4 = 0$ 10 - Vc - 4 = 06 -Vc = 0 -VC=-6 Vc = 6V Vo = 4V for the -ve half cycle the Diode -> R.B->0.C o Vot JOV Vio -104 ٧o 4v $-V_1^{\circ}-V_C-V_0=0$ -10 - 6 - 40 = 0-16-Vo=0 Vo = -16V -167

Q.B Determine to for the n/w of figure for the I/P Indicated! tre clamper with 5٧ > t -151 for the -ve half cycle the Diode -> f.B -> s.C o Vot Vi $-v_{i}^{\circ}-v_{c}-2=0$ $-15 - V_c - 2 = 0$ -19-Vc = 0 $\frac{-VC=17}{VC=17}$ $V_0=2V$ for the tre half cycle the diode is R.B. > 0.C, -Vo + 5V -157 23 $V_i^{\circ} - V_c - V_o = 0$ 2 4 5 - (-17) - Vo = 0 5+17-Vo = 0 10=23 +Vo=+22