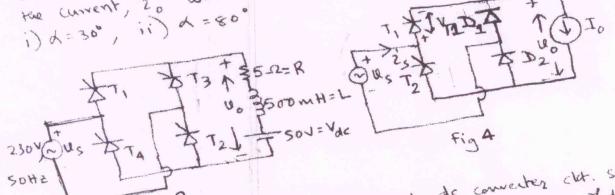
Assignment Three . (Spring 2019.) EE- 222.

31. Consider the circuit shown in Fig.1. Plot the current, showing its key features (i.e. starting post), peak value che once the ckt. attains steady state.

150V \$ 160 mH Supply + 1 -Fig2

92. PIST current, 2 fer Fig. 2 as well.

33. Consider the single phase fully controlled as to do converter circuit shown in Fig3. Analytically show whether the current, 20 will be continuous or discontinuous when



BA. (overider the way and as to de converter cht. shown in Fig. 4. We In this clet. two of the Hugristers of the Ckt. of fig.3 have been replaced by two diedes,

The receives gating pulses from xtx to 2xtx.

Di and D2. receives gating pulses from xtx to 2xtx. 40, 1272 and 45 for and 2 45°.

35. The circuit of Fig. 3 is supposed by an ac source of 2AOV, SOHZ. Vac=100V, R=5-12 and L is large change to ensure continuous conduction. Determine the delay

angle, & to be maintained for the conventor so that 1880 W is absorbed by the de source.