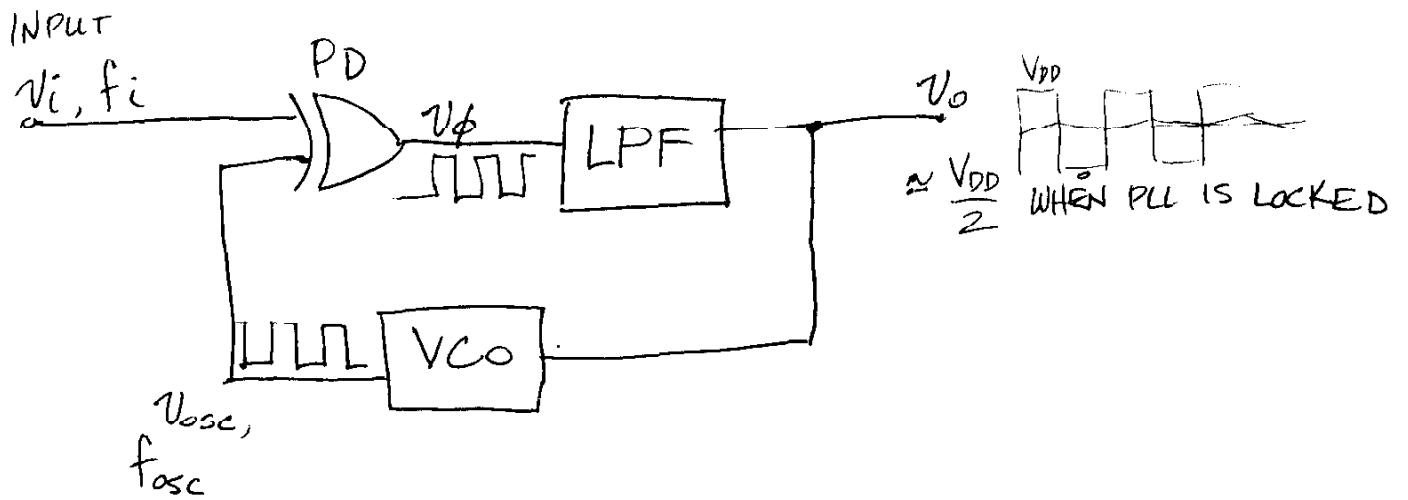


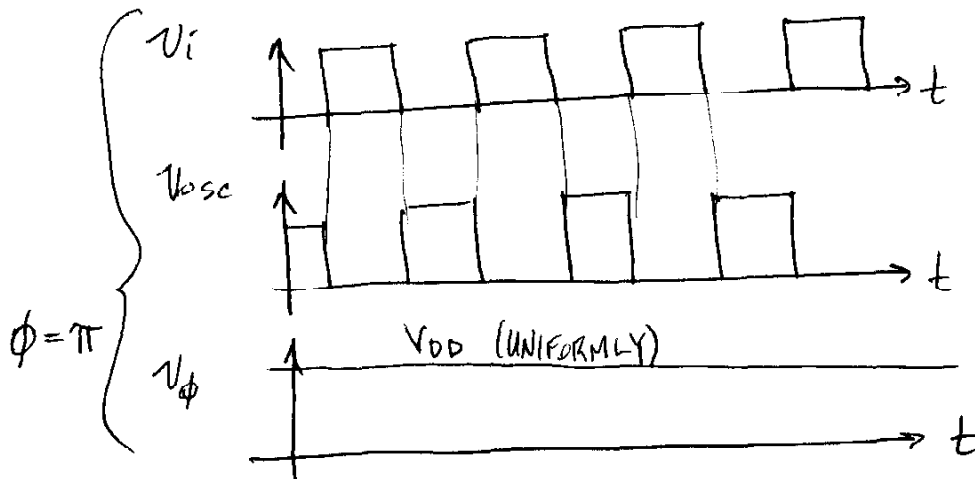
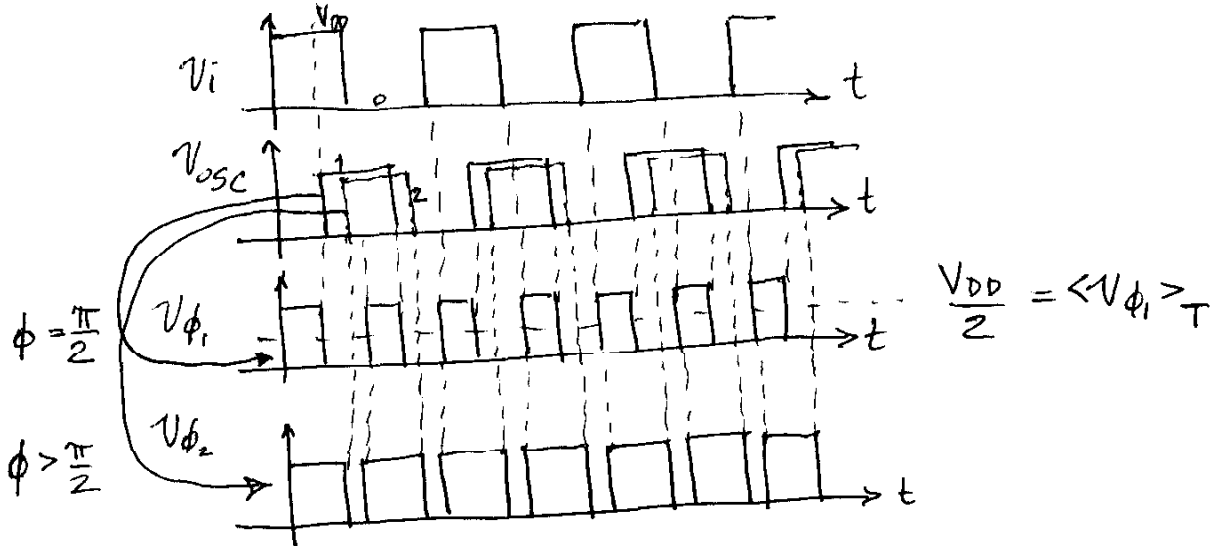
LAB 4

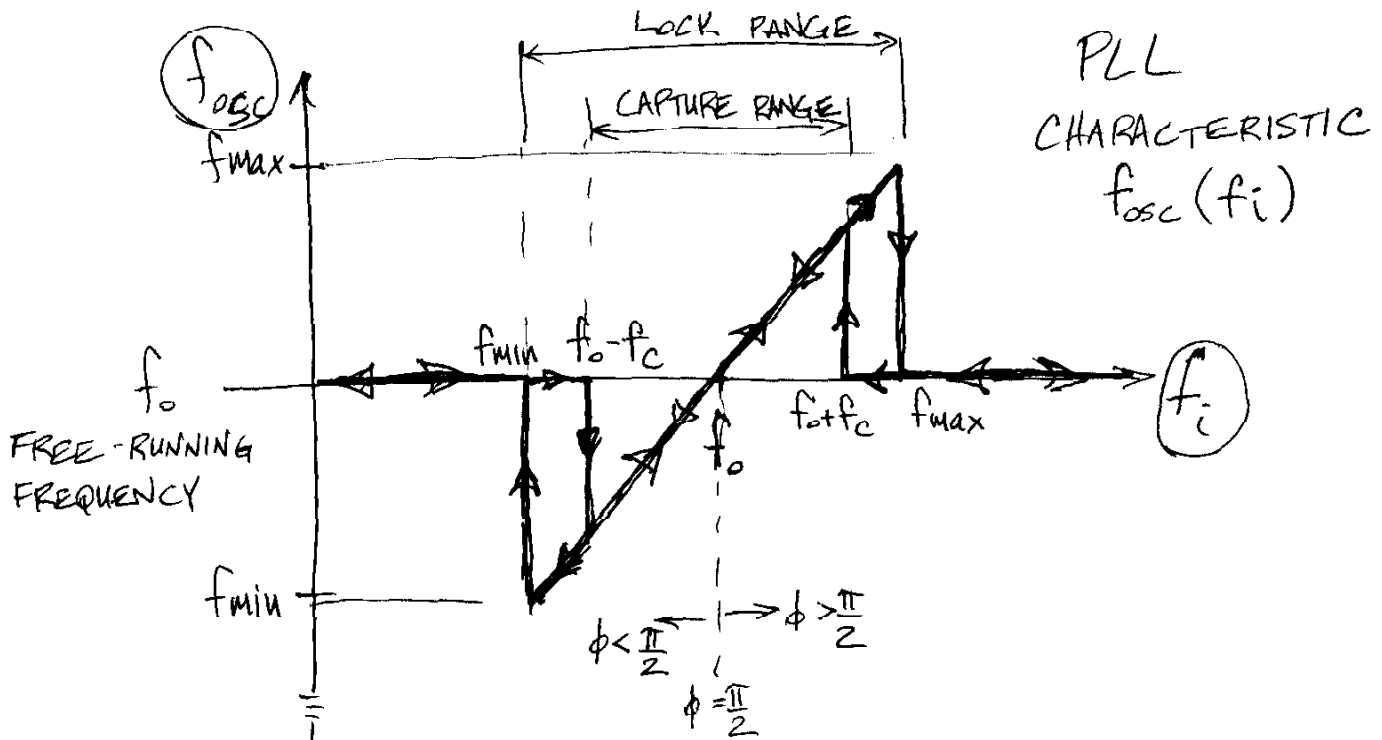
PLL CONTINUED

10/9/98



IN THE LOCKED CONDITION, $f_{osc} = f_i$
 HERE ARE SOME EXPECTED WAVEFORMS WHEN "LOCKED".





- INCREASING THE BANDWIDTH OF THE LOW PASS FILTER WILL INCREASE THE CAPTURE RANGE. HOWEVER, $v_o(t)$ WILL HAVE MORE A.C. RIPPLE (WHICH IS UNDESIRABLE IN LAB 5)