Phase Locked Loop Lab Worksheet

Note: Turn in at *beginning* of lab. If you have any questions about this exercise, please [see, call, email] the instructor well in advance of the lab.

A. Read section 13.13 (pp 955–974) in Horowitz and Hill.
B. In a few sentences, describe the operation of a type I phase detector.
C. In a few sentences, describe the operation of a type II phase detector.
D. Where should pin 5 of the MC14046B P.L.L. chip be connected? (This will require some detective work on the data sheet.)
E. Explain the difference between capture range and lock range for the input frequency.
D. Dapiam the difference between capture range and lock range for the input frequency.