

LABORATORY REPORT SHEET

Name _____ Date _____ Section _____

Code for your unknown acid _____ Concentration of $\text{OH}^-_{(\text{aq})}$ used _____

A. **pH Titration Plot:** Use Excel or another graphing program to generate a pH-titration graph (pH plotted as a function of mL of NaOH added). On this graph, clearly indicate the mL of NaOH needed to reach the equivalence point.

B. **Molecular Weight**

Neutralization point: _____ mL (from plot)

moles of $\text{OH}^-_{(\text{aq})}$ added at the neutralization point: _____

g of weak acid weighed out: _____ g

g of weak acid in titrated sample: _____ g

molecular weight of weak acid: _____ g/mole

C. **Estimation of pK_a**

From pH titration curve: _____

From half-titrated samples: _____

mean value from half-titrated samples: _____

D. Identification of unknown: _____
(Choose from Table 1)