

ANSWER TO "TRY YOURSELF" PROBLEM FROM STUDY SECTION 9.1

**Try Yourself 9.1**

- a) You have a 0.30 M solution of formic acid ( $\text{HCO}_2\text{H}$ ). Calculate the pH of the formic acid solution.  $K_a$  for formic acid =  $1.8 \times 10^{-4}$  at 25 °C.
- b) You add enough sodium formate ( $\text{NaHCO}_2$ ) to make the solution 0.10 M in the salt. Calculate the pH of the solution after adding the salt.