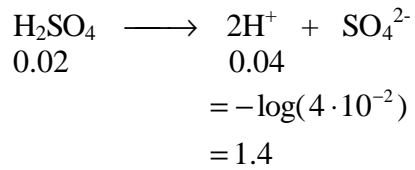
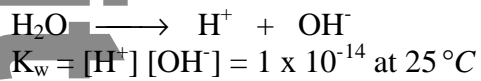
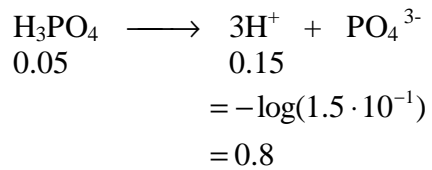


2. 0.02 mol/L H₂SO₄



3. 0.05 mol/L H₃PO₄



↑
ionization dissociation constant for H₂O

Determine:

1. [H⁺] = 0.10 mol/L
2. [OH⁻] =
3. pH of 0.10 M HCl

$$\begin{array}{l} 1. \quad K_w = [\text{H}^+][\text{OH}^-] \\ 1 \times 10^{-14} = (0.1)[\text{OH}^-] \\ [\text{OH}^-] = 10^{-13} \\ \text{pH} = 1 \end{array}$$