

Equilibrium pretest

1. If the $[H^+]$ of a solution is 4×10^{-4} , what is the pH?

2. What is the concentration of Cu in solution if 10g of $CuCO_3$ is put into 100ml? $K_{sp} = 2.3 \times 10^{-10}$

3. Predict the pH at the equivalence point for each of the cases below:

Strong acid/ strong base

weak acid/ strong base

weak base/ strong acid

4. Calculate the volume of 0.05 M strong base required to titrate 100 ml of 0.02 M weak acid to the equivalence point.