2. What is the effect of reagent and analyte dilution on the equivalence point pH in strong acid-base titration? (5 points)

3. You collected a water sample from your shower containing 1.2 mM Mg^{2+} + 3.3 mM Ca^{2+}. Express the hardness of water in terms of mg $CaCO_3$/L.
(FM for $CaCO_3$ = 100.09). (5 points)