Question 21 (3 marks)

A $0.001 \text{ mol } L^{-1}$ solution of hydrochloric acid and a $0.056 \text{ mol } L^{-1}$ solution of ethanoic acid both have a pH of 3.0.

Why do both solutions have the same pH?

Camputely consess in solution, ethanoric acid is a meaning it a meaning acid is a meaning and uncompletely consess in solution. The Although the ethanoric acid solution has a higher cancentration of 0.056M compared to 0.001M of MCI, are to its incomplete consolon, it has the same pt as MCI, 0.001M.