

25 Conjugate acids and bases — Part 1

— Answers

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Work through these after trying the questions yourself.

25.1 Its conjugate base.

25.2 Its conjugate acid.

25.3 By one H^+ (one proton).

25.4 $\text{pH} = -\log[\text{H}^+]$.

25.5 7.

25.6 The pair is NH_3 (the base) and NH_4^+ (its conjugate acid). NH_3 accepts an H^+ to become NH_4^+ , so they differ by one proton.