

Here are a few practice problems involving acids and bases:

(1) Find the pH of 0.17 M methylamine.

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(2) Find the pH of 0.11 M hypochlorous acid.

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(3) Find the pH of 0.030 M sodium hydroxide.

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(4) An 0.15 M solution of monoprotic acid has a pH of 2.80 at 25 C. Find the  $K_a$  of the acid.

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(5) Find the pH of a solution made of 25 mL of 0.10 M hydrofluoric acid mixed with 75 mL of 0.075 M NaF.