## Question:

Write the approximate net reaction between carbonate ion and water in a system that is not also exposed to atmospheric carbon dioxide. Is the resulting water acidic, alkaline, or neutral?

## Solution:

$\mathrm{CO}_{3}{ }^{2-}+\mathrm{H}_{2} \mathrm{O}=\mathrm{HCO}_{3}{ }^{-}+\mathrm{OH}^{-}$
Answer:
Resulting water is alkaline.

