



- a.  $S^{3-}$
- b.  $N^{3-}$

**Answer**

(a) S is in Group 6A and has six valence electrons. It achieves octet by gaining two electrons to form  $S^{2-}$  anion. Gaining three electrons to form  $S^{3-}$  does not make it octet, hence,  $S^{3-}$  is not likely to form.

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