

PSEUDO-HYDROGEN ATOM / ONE-ELECTRON  
SYSTEM CATION (HYDROGEN-LIKE ATOM)

**Problem-solving Example 17**

Given atoms of He ( $Z=2$ ) ; Li ( $Z=3$ ); Be ( $Z=4$ ); B ( $Z=5$ ) and C ( $Z=6$ ). How many electron(s) must be removed so that the cation has only one electron (one-electron system – pseudo hydrogen atom). Write the process and the cations.

*Solution*



