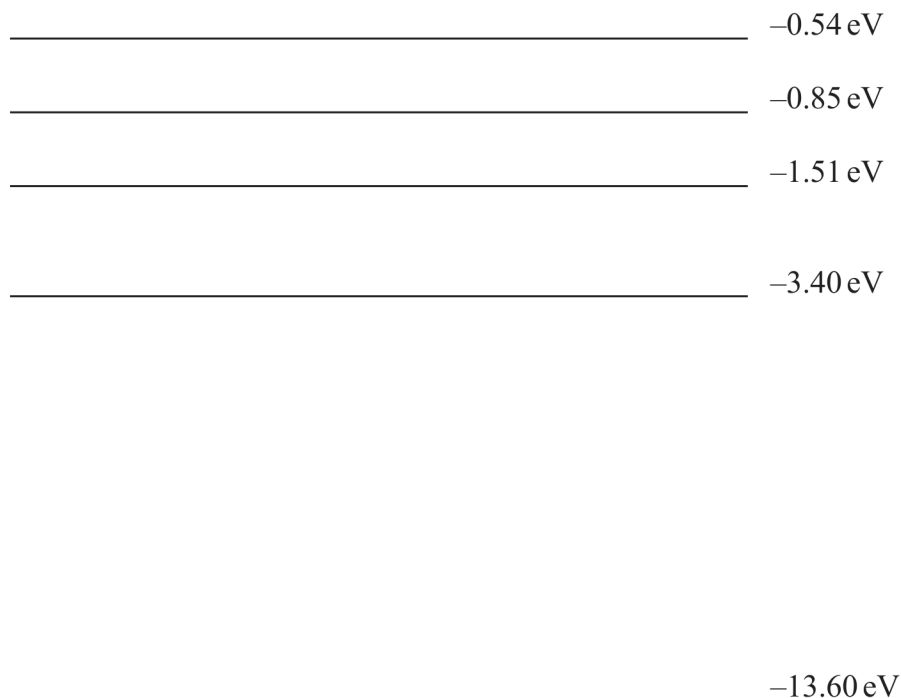


- 8 The diagram shows some of the energy levels of a hydrogen atom.



An excited electron in the level -0.54 eV drops to the level -13.60 eV , resulting in the release of at least one photon.

Which of the following photon energy values could **not** be produced from this electron transition?

- ☐ A 0.31 eV
- ☐ B 0.54 eV
- ☐ C 12.09 eV
- ☐ D 13.06 eV

(Total for Question 8 = 1 mark)