

**28** An electron in an atom transitions from  $-25.0\text{ eV}$  to  $-80.0\text{ eV}$ . A photon is emitted in the process.

What is the wavelength of the emitted photon?

**A** 15.5 nm

**B** 22.6 nm

**C** 49.7 nm

**D** 300 nm

**29** Which of the following best describes the Heisenberg's uncertainty principle?