

39 The uranium nucleus  $^{238}_{92}\text{U}$  undergoes  $\alpha$ -decay, producing nucleus X.

Nucleus X undergoes  $\beta$ -decay, producing nucleus Y.

For nucleus Y, what are the values of the proton number and nucleon number?

	proton number	nucleon number
A	89	234
B	89	236
C	91	234
D	91	236

40 Radon 220 is radioactive and decays to polonium 216 with the emission of an  $\alpha$  particle. The