

40 A radioactive nucleus emits an α -particle or a β -particle, creating a product nucleus.

Which decay process could create the product nucleus stated?

	radioactive nucleus	decay	product nucleus
A	$^{226}_{88}\text{Ra}$	α	$^{224}_{86}\text{Rn}$
B	$^{238}_{92}\text{U}$	α	$^{242}_{94}\text{Pu}$
C	$^{228}_{88}\text{Ra}$	β	$^{228}_{87}\text{Fr}$
D	$^{231}_{90}\text{Th}$	β	$^{231}_{91}\text{Pa}$