## College Prep Chemistry

Assignment 1O – Beta (β) Decay Processes

20 Points

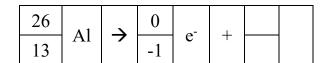
Answer the following questions based on the in class notes

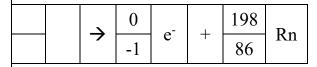
What is beta (β-) decay, and why does it occur in an atom?	What is positron ( $\beta$ +) emission, and why does it occur in an atom?

Complete the following nuclear decay equations showing the decay of common beta and positron emitting isotopes.

223	Е	r →	0	e <sup>-</sup>	+	
87	Fr		-1			

$$\begin{array}{c|c}
165 \\
\hline
61 \\
\end{array} \text{ Pm } \rightarrow \begin{array}{c|c}
0 \\
\hline
-1 \\
\end{array} \text{ e}^{-} + \begin{array}{c|c}
\end{array}$$





	$\rightarrow$	0	$e^+$	+	40	Λ ν
		+1			18	Ar