	State the number of nucleons and the number of neutrons in nucleus X.	
	number of nucleons =	
	number of neutrons =	
		[2]
(b)	State one similarity and one difference between a β^+ particle and a β^- particle.	
	similarity:	
	difference:	
		[2]
		[Total: 4]

(a) A nucleus X decays by emitting a β^+ particle to form a new nucleus, $^{23}_{11}Na$.

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