' (a)	The spontaneous decay of polonium is shown by the nuclear equation	
		$^{210}_{84} \text{Po} \rightarrow ^{206}_{82} \text{Pb} + X.$
	(i)	State the composition of the nucleus of X.
	(ii)	The nuclei X are emitted as radiation. State two properties of this radiation. 1
		2
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(b)	of lopos	emass of the polonium (Po) nucleus is greater than the combined mass of the nuclead (Pb) and X. a conservation law to explain qualitatively how this decay sible.
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