Question 1 (5 marks)

Hanai is a successful college basketball player. His coach has warned him that he will lose his scholarship if he scores 54% or below on a weekly assessment. On his first three weekly assessments he scored 84%, 81% and 78% respectively.

Assume Hanai's weekly assessments continue to follow this pattern.

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(a)	Deduce a rule for the $n^{th}$ term of this sequence.	(2 marks)
(b)	Determine Hanai's score on his sixth weekly assessment.	(1 mark)
(c)	Predict when Hanai will lose his scholarship.	(2 marks)