



Air maths tuition

Interact, engage and perform

Term by Term Sequences | Past Paper Question | C1 Edexcel June 2011 Q5a,b

$a_1 = k$

$a_{n+1} = 5a_n + 3 \quad n \geq 1$ where k is a positive integer

a) Find a_2 in terms of k b) Show that $a_3 = 25k + 18$

when $n=1$	when $n=2$
$a_2 = 5a_1 + 3$	$a_3 = 5a_2 + 3$
$\therefore a_2 = 5k + 3$	$= 5(5k + 3) + 3$
	$= 25k + 15 + 3$
	$= 25k + 18$

With the acknowledgement of [Exam Solutions](#).
Find lots more revision sheets on [Air Maths Tuition](#).
[This Video](#)



Exam Solutions
m a t h s m a d e e a s y