a) Determine whether 156 is a term in the sequence which starts 4, 7, 10, 13, 16, ...

What is the general term for the sequence?	$4, 7, 10, 13, 16, \dots = 3n + 1$
	3n + 1 = 156
How can you find the position number of 156 in the sequence?	$3n + 1 = 156$ $-1 - 1$ $3n = 155$ $\div 3 \div 3$ $n = 51.\dot{6}$
What does this mean about the position of the term in the sequence?	Because $n$ is not a whole number, 156 is not a term in the sequence which starts 4, 7, 10, 13, 16,

b) Determine whether 166 is a term in the sequence which starts 5, 12, 19, 26, 33, ...

What is the general term for the sequence?	$5, 12, 19, 26, 33, \dots = 7n - 2$
	7n - 2 = 166
How can you find the	7n -2 = 166
position number of	+2 +2
166 in the sequence?	7n = 168
1	÷ 7
	n = 24
Mhat dagathia maan	п – 21
What does this mean	
about the position of	
the term in the	
sequence?	

c)
Determine whether 254 is a term in the sequence which starts 25, 34, 43, 52, 61, ...

What is the general term for the sequence?	$25, 34, 43, 52, 61 \dots = 9n + 16$
How can you find the position number of 254 in the sequence?	
What does this mean about the position of the term in the sequence?	

d)

Determine whether 154 is a term in the sequence which starts 1, 4, 7, 10, 13, ...

## **BACKWARD FADED MATHS**