



Name: \_\_\_\_\_

Find the 1<sup>st</sup>, 3<sup>rd</sup>, 5<sup>th</sup> and 10<sup>th</sup> terms of the following quadratic n<sup>th</sup> term sequences

	1 <sup>st</sup> Term	3 <sup>rd</sup> Term	5 <sup>th</sup> Term	10 <sup>th</sup> Term
a) $n^2 + 3$				
b) $2n^2$				
c) $n^2 + 3n$				
d) $n^2 - 2n$				
e) $n^2 + 5n - 5$				
f) $n^2 - 3n + 1$				
g) $2n^2 + 3n - 7$				
g) $3n^2 - n + 2$				

Find if the following numbers are in the given sequences, and if so, which position in the sequence?

h) Is 117 in  $n^2 - 4n$  ?
i) Is 132 in  $n^2 + n$  ?
j) Is 116 in  $n^2 - 2n + 4$  ?
k) Is 74 in  $n^2 - n$  ?
l) Is 134 in  $2n^2 - 4n + 8$  ?
**Exam question:**

The nth term of a sequence is:  $2n^2 + 4n - 1$   
 Work out the 10th term of the sequence

