

OOPS!

Below is a worked solution to a question that I feel you could have gained more marks on ..

a)

Draw lines to match each n th term rule to its number sequence

n th term	Number sequence
$4n$ $4 \times 1 \quad 4 \times 2 \quad 4 \times 3 \quad 4 \times 4$ $4 \quad 8 \quad 12 \quad 16$	4, 7, 12, 19
$(n+1)^2$ $(1+1)^2 \quad (2+1)^2 \quad (3+1)^2 \quad (4+1)^2$ $4 \quad 9 \quad 16 \quad 25$	4, 8, 12, 16
$n^2 + 3$ $1^2 + 3 \quad 2^2 + 3 \quad 3^2 + 3 \quad 4^2 + 3$ $4 \quad 7 \quad 12 \quad 19$	4, 9, 16, 25
$n(n+3)$ $1(1+3) \quad 2(2+3) \quad 3(3+3) \quad 4(4+3)$ $4 \quad 10 \quad 18 \quad 28$	4, 10, 18, 28

(2)

b)

Write the **first four terms** of the number sequence using the n th term rule below

$n^3 + 3$	<u>4</u> <u>11</u> <u>30</u> <u>67</u>
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$1^3 + 3 = 1 + 3 = 4$
 $2^3 + 3 = 8 + 3 = 11$
 $3^3 + 3 = 27 + 3 = 30$
 $4^3 + 3 = 64 + 3 = 67$
 (2)

FACEPALM!!

NOW HAVE A GO AT THIS:



a)

Draw lines to match each n th term rule to its number sequence

n th term	Number sequence
$3n$	5, 8, 13, 20
$(n+2)^2$	3, 8, 15, 24
$n^2 + 4$	9, 16, 25, 36
$n(n+2)$	3, 6, 9, 12

(2)

b)

Write the **first four terms** of the number sequence using the n th term rule below

$n^3 + 5$	<u> </u> <u> </u> <u> </u> <u> </u>
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(2)