



Generating Sequences



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 The n th term of a sequence is $5n + 3$



1 (a) Work out the 3rd term of the sequence

[1 mark]

Answer _____

1 (b) Work out the 5th term of the sequence

[1 mark]

Answer _____

1 (c) Work out the 9th term of the sequence

[1 mark]

Answer _____

1 (d) Work out the 12th term of the sequence

[1 mark]

Answer _____





2 The n th term of a sequence is $3n - 2$



2 (a) Work out the 2nd term of the sequence

[1 mark]

Answer _____

2 (b) Work out the 8th term of the sequence

[1 mark]

Answer _____

3 The n th term of a sequence is $2n - 10$

3(a) Work out the 1st term of the sequence

[1 mark]

Answer _____

3 (b) Work out the 9th term of the sequence

[1 mark]

Answer _____





4 The n th term of a sequence is $4n + 11$



4 (a) Work out the 5th term of the sequence

[1 mark]

Answer _____

4 (b) Work out the 10th term of the sequence

[1 mark]

Answer _____

5 The n th term of a sequence is $10n - 3$

5(a) Work out the 8th term of the sequence

[1 mark]

Answer _____

5 (b) Work out the 20th term of the sequence

[1 mark]

Answer _____

$\frac{\quad}{8}$

Turn over ►





6 The n th term of a sequence is $20 - 3n$



6 (a) Work out the 1st term of the sequence

[1 mark]

Answer _____

6 (b) Work out the 7th term of the sequence

[1 mark]

Answer _____

7 The n th term of a sequence is $8 - n$

7 (a) Work out the 5th term of the sequence

[1 mark]

Answer _____

7 (b) Work out the 12th term of the sequence

[1 mark]

Answer _____





8 The n th term of a sequence is $n^2 + 3$

8 (a) Work out the 3rd term of the sequence

[1 mark]

Answer _____

8 (b) Work out the 4th term of the sequence

[1 mark]

Answer _____

9 The n th term of a sequence is $n^2 - 30$

9 (a) Work out the 5th term of the sequence

[1 mark]

Answer _____

9 (b) Work out the 8th term of the sequence

[1 mark]

Answer _____

$\frac{\quad}{8}$

Turn over ►





10 The n th term of a sequence is $2n^2$



10 (a) Work out the 3rd term of the sequence

[1 mark]

Answer _____

10 (b) Work out the 5th term of the sequence

[1 mark]

Answer _____

11 The n th term of a sequence is $n^2 - 2n$

11 (a) Work out the 3rd term of the sequence

[2 marks]

Answer _____

11 (b) Work out the 4th term of the sequence

[2 marks]

Answer _____





12 The n th term of a sequence is $7n - 1$

Work out the first term in the sequence that is greater than 50

[2 marks]

Answer _____

13 The n th term of a sequence is $9n + 20$

Work out the first term in the sequence that is greater than 100

[2 marks]

Answer _____

14 The n th term of a sequence is $15 - 4n$

Work out the first term in the sequence that is negative.

[2 marks]

Answer _____

Turn over ►





15 The n th term of a sequence is $3n - 13$

Work out the first term in the sequence that is positive.

[2 marks]

Answer _____

16 The n th term of a sequence **A** is $3n + 8$

The n th term of a sequence **B** is $n^2 + k$

The 5th term of sequence **A** is equal to the 4th term of sequence **B**.
Work out the value of k .

[3 marks]

$k =$ _____

$\frac{\quad}{5}$

