

Sequences – GCSE Mathematics Paper 1

1. No.13

(a) The term-to-term rule for a sequence is

multiply by 2

The 3rd term of the sequence is 46

Work out the 1st term.

Give your answer as a decimal.

[3 marks]

Answer _____

- (b) The term-to-term rule for a different sequence is

subtract k

The 1st term is 34

The 4th term is 10

Work out the value of k .

[3 marks]

$k =$ _____

2. No.19

The first three terms of a sequence are x y xy

The sequence is continued by multiplying the previous two terms.

- (a) Circle the 5th term of the sequence.

[1 mark]

x^3y^3

x^5y^5

x^3y^4

x^2y^3

- (b) The 8th term of the sequence is x^8y^{13}

The value of this term is negative.

What does this mean about the values of x and y ?

Tick **one** box for each row.

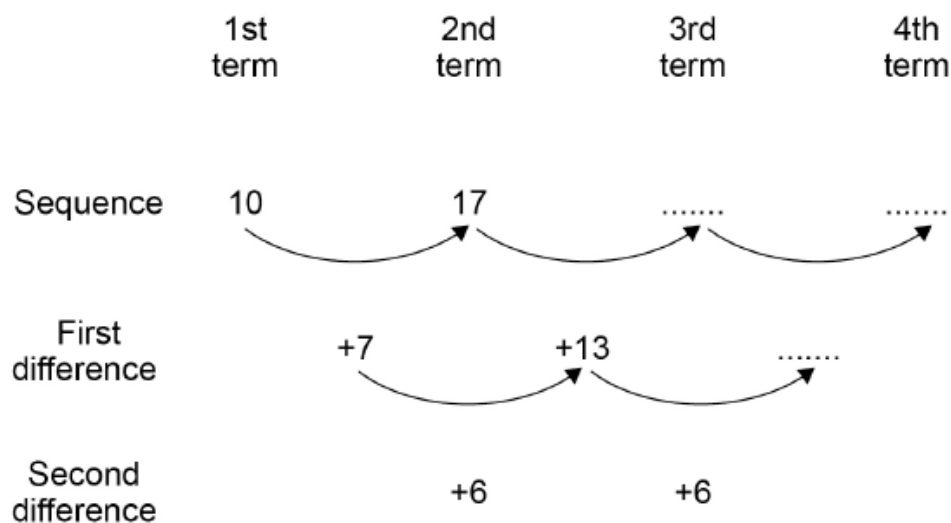
[2 marks]

	Must be positive	Must be negative	Could be either
x			
y			

3. No.21

The first two terms of a quadratic sequence are 10 and 17

Here is some information about the sequence.



Work out an expression for the n th term of the sequence.

[4 marks]

Answer
