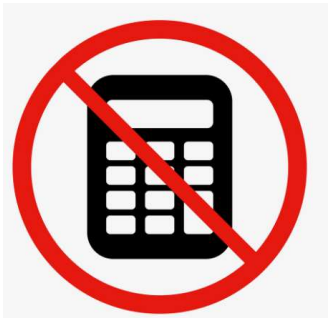
Question of the day

Day 5



(a) These are the first five terms in a Fibonacci sequence. ← add the 2 previous terms

1 3 4 7 11 , 18

Write down the next two terms in the sequence.

7 + 11 = 18

11 + 18 = 29

(a) 18 , 29 [1]

(b) In a different Fibonacci sequence the fourth term is 31 and the fifth term is 50.

Work out the first term in this sequence.

7 12 19 31 50

3rd term = 50 - 31 = 19

2nd term = 31 - 19 = 12

1st term = 19 - 12 = 7

(b) 7 , 12 , 19 [2]

To find the next term we add the 2 previous terms.
To find a previous term we need to subtract.

(c) The second and third terms in the following Fibonacci sequence are *x* and *y*.

Write down algebraic expressions for the first, fourth and fifth terms.

subtract ← → add

y - x x y x + y y + x + y = 2y + x [3]

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