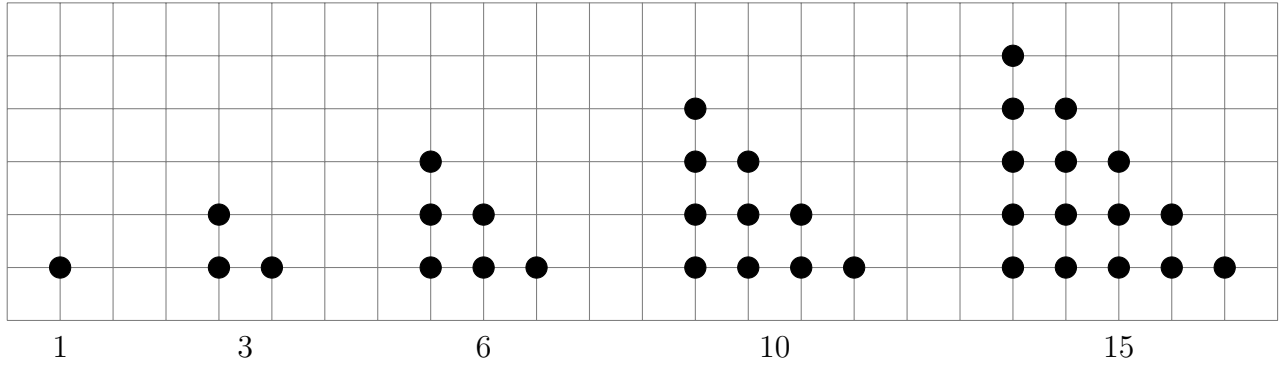1. The number of dots {or squares} in each pattern is a triangle number.

1   3   15   21

(a) Write down the 3rd and 4th triangle numbers.

1   3   6   10   15

(b) Write down the next triangle number

(c) Here is a sequence of triangle numbers.

    1   3   6   10   15   21   28

The rule to continue a triangle number sequence is add on one more each time.

Write down the next triangle number.

2. Here are the first seven terms of a Fibonacci sequence.

    1   1   2   3   5   8   13

The rule to continue a Fibonacci sequence is,

    the next term in the sequence is the sum of the two previous terms.

Find the 10th term of this sequence.