Pre - test 3

Two IB's questions about series...

Question 1

(a) Find the number of terms in the geometric series

$$1 + 3 + 9 + 27 + \ldots + 177\,147\,.$$

(b) Calculate the sum of the series in part (a).

Question 2

3. The sum of the first n terms of a series is given by

$$S_n = 2n^2 - n, \text{ where } n \in \mathbb{Z}^+.$$

(a) Find the first three terms of the series.

(b) Find an expression for the n^{th} term of the series, giving your answer in terms of n.

Working:

Answers:

(a) _____

(b) _____