4 The *n*th term of a sequence is given by $7n^2 + 100$

(a) Find the 5th term of the sequence.

....
(1)

Barney says that 37 is a term in the sequence.
Barney is wrong.

(b) Explain why Barney is wrong.

....

....
(1)

(Total for Question 4 is 2 marks)

5 Evaluate $\dfrac{6 \times 10^9 + 1.8 \times 10^8}{3 \times 10^2}$

Give your answer in standard form.

....

(Total for Question 5 is 2 marks)