**3** Here are the first five terms of a number sequence $S$.

10 16 22 28 34

(a) Find an expression, in terms of $n$, for the $n$th term of this sequence.

**(2)**

The $n$th term of a sequence $T$ is given by $n^2 - 3$

There are numbers that are terms in both the sequence $S$ and the sequence $T$.

(b) Find one of these numbers.

**(2)**

**(Total for Question 3 is 4 marks)**

**4** On Saturday, Jacob walked 10 800 steps.
On Sunday, he walked 7% more steps than on Saturday.

Work out how many steps Jacob walked on Sunday.

**(Total for Question 4 is 3 marks)**

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