**9.** Prove, by induction, that for $n \in \mathbb{Z}, n \geqslant 2$

$$4^n + 6n - 10$$

is divisible by 18

**(5)**

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**Question 9 continued**

**Question 9 continued**

**(Total for Question 9 is 5 marks)**

**TOTAL FOR PAPER IS 75 MARKS**

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