**24** An arithmetic sequence has first term 8 and common difference 11
The sequence has $k$ terms, where $k > 21$

The sum of the last 20 terms of the sequence is 10 170

Find the value of $k$
Show clear algebraic working.

$k =$ .....

**(Total for Question 24 is 5 marks)**

**TOTAL FOR PAPER = 100 MARKS**

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