Name:
a) Find the sum of the first 25 terms of an arithmetic sequence that starts : $6,10,14,18$..

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b) Find the sum of the first 50 terms of an arithmetic sequence that starts : $3,8,13,18 \ldots$
c) Find the sum of the first 30 terms of an arithmetic sequence that starts : $4,7,10,13 \ldots$
, d) Find the sum of the first 26 terms of an arithmetic sequence that starts : $100,96,92,88 \ldots$
e) Find the sum of the $40^{\text {th }}$ to the $60^{\text {th }}$ terms of an arithmetic sequence that starts : $3,5,7,9,11 \ldots$
f) Find the sum of the $60^{\text {th }}$ to the $80^{\text {th }}$ terms of an arithmetic sequence that starts : $2,8,14,20,26 \ldots$
 g) Find the sum of the $25^{\text {th }}$ to the $70^{\text {th }}$ terms of an arithmetic sequence that starts : 99, $96,93,90,87 \ldots$
h) Find the sum of the $44^{\text {th }}$ to the $66^{\text {th }}$ terms of an arithmetic sequence that starts : $10,13.5,17,20.5,24 \ldots$

For each arithmetic sequence described below, find the first term (a) and common difference (d) :
i) $7^{\text {th }}$ term is 20 . The sum of first 11 terms is 198.
j) $8^{\text {th }}$ term is 35 . The sum of first 10 terms is 250.

## Exam question

The $5^{\text {th }}$ term of an arithmetic sequence is 30 .

$$
S_{n}=\frac{n}{2}[2 a+(n-1) d]
$$

The sum of the first 6 terms of the arithmetic sequence is 135 .
Find the $20^{\text {th }}$ term of the sequence.


