

Name : _____

Arithmetic Sequence - Unknowns

Sheet 5

- 1) If $15u, 9u, 3u, -3u, -9u, \dots$ forms an arithmetic progression and the 13th term is 114, determine the value of u .

- 2) An arithmetic sequence $2, 5, 8, \dots$ Find f , if the 7th term is $\frac{36}{5}$.

- 3) An arithmetic progression $1, 3, 5, \dots$ If the 35th term is $2c - 1$, find the value of c .
 $1 + c, -54 + c, -67 + c, \dots$

- 4) If the tenth term of an arithmetic sequence is 891, find the 100th term.
 $100 - x, 300 - x, 400 - x, \dots$

- 5) If $k + 4, k - 3, k - 10, k - 17, k - 24, \dots$ forms an arithmetic sequence and the 42nd term is -268 , determine the value of k .

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