

Name : _____

Arithmetic Sequence - Unknowns

Sheet 1

- 1) If the twenty-second term in the arithmetic sequence $k + 1, k - 7, k - 15, k - 23, k - 31, \dots$ is -165 , find the value of k .
- _____

- 2) An arithmetic progression has first term 3 and common difference 5 . Find the 36th term is 71 , find the value of n .
3, $5s + 4, \dots$ If the

- 3) If $\frac{8}{x}, \frac{51}{2x}, \frac{43}{x}, \dots$ is an arithmetic progression, find the 12th term is $\frac{401}{14}$, determine the value of x .

- 4) An arithmetic sequence has first term $-2f - 15$ and common difference -6 . Find f , if the 19th term is $-2f - 15, -2f - 21, \dots$

- 5) If $m, m + 4, m + 8, m + 12, m + 16, \dots$ forms an arithmetic progression and the 18th term is 80 , determine the value of m .
- _____

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