

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 is formed by $s, 2s + 1, 3s + 2, 4s + 3, 5s + 4, \dots$. If the 36th term is 71, find s .

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

- 4) An arithmetic sequence is $-2f - 15, -2f - 21, \dots$. Find f , if the 19th term is -100 .

- 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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Arithmetic Sequence - Unknowns

- 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 .

$k = 2$

- 2) An arithmetic progression is formed by $s, 2s + 1, 3s + 2, 4s + 3, 5s + 4, \dots$. If the 36th term is 71, find s .

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

- 4) An arithmetic sequence is $-2f - 15, -2f - 21, \dots$. Find f , if the 19th term is -177 .

$f = 5$

- 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 .

$m = 12$
