

Name : _____

Arithmetic Sequence - Unknowns

Sheet 3

- 1) An arithmetic progression is formed by $g, g + 6, g + 12, g + 18, g + 24, \dots$. If the 30th term is 164, find g .
- _____

- 2) If $2y, \frac{y}{2}, -y, -\frac{5y}{2}$ are the first four terms of an arithmetic progression, find the 25th term is -204 , determine the value of y .
- _____

- 3) An arithmetic sequence has first term 143 and common difference $-\frac{143}{24}$. Find t , if the 17th term is $-\frac{143}{24}$.
- _____

- 4) If $-4p - 1, -5p, -6p, \dots$ are the first four terms of an arithmetic progression, find the 9th term is -25 .
- _____

- 5) If the twenty-sixth term in the arithmetic sequence $-u, -u - 4, -u - 8, -u - 12, -u - 16, \dots$ is -134 , find the value of u .
- _____

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