

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 18: Math IBSL - Standard 18 - Arithmetic and Geometric Sequences

5 points

For each sequence below, use the general formula to find the term indicated.

1 $5, 13, 21, \dots u_9$

4 $\frac{1}{2}, \frac{5}{6}, \frac{7}{6}, \dots u_6$

5 $x + 2, x + 5, x + 8, \dots u_9$

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- 1 Given an arithmetic progression with $u_{21} = 65$ and $d = -2$, find the value of the first term.

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- 3 Given an arithmetic sequence in which $u_1 = 11$ and $d = -3$, find the term that has a value of 2.

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- 5 Find the number of terms in the finite arithmetic sequence $6, -1, -8, \dots, -36$.