

Name:

Section 2.3 – Sequence and Series

Solve for the missing information

$$t_n = a + (n - 1)d$$

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|---------------------------------------|---------------------------|
| $a = -2, d = 8, \text{ find } t_{12}$ | $a = -3, d = 5, t_n = 82$ |
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Find the sum of the series.

$$S_n = \frac{n}{2}(a + l)$$

or

$$S_n = \frac{n}{2}(2a + (n - 1)d)$$

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| $1 + 5 + 9 + 13 + \dots + 97$ | $S_{21}, \text{ if } a_1 = 8, a_{20} = 65$ |
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