

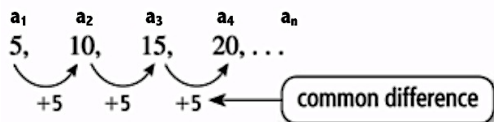
4.6 Arithmetic Sequences

Sequences

Term

Arithmetic Sequences

Common Difference



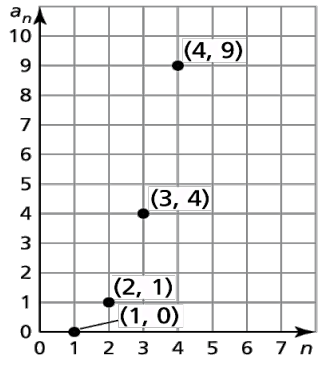
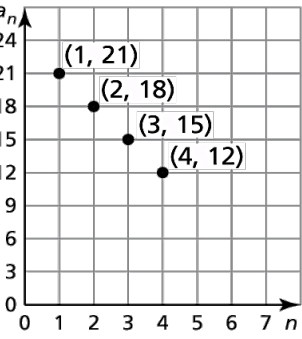
State the first term, and the common difference. Then, write the next three terms of the arithmetic sequence.

1. 1, 8, 15, 22, ...	2. 20, 14, 8, 2, ...	3. $\frac{1}{4}, \frac{5}{4}, \frac{9}{4}, \frac{13}{4}, \dots$
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Graph the arithmetic sequence.

4. 1, 3, 5, 7, ... 	5. 10, 7, 4, 1, ... 	6. 1, 2.5, 4, 5.5, ...
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Determine if the sequence is arithmetic. Explain.

<p>7.</p> 	<p>8. 20, 30, 40, 50,...</p>	<p>9.</p> 	<p>10. 48, 24, 12, 6,...</p>
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$$a_n = a_1 + (n - 1)d$$

Write an equation for the n th term of the arithmetic sequence. Then find a_{10} .

<p>11. -11, -9, -7, -5,...</p>	<p>12. 16.3, 14.8, 13.3, 11.8,...</p>
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15. In an auditorium, the first row of seats has 30 seats. Each row behind the first row has 4 more seats than the row in front of it. How many seats are in the 25th row?