

Finding the Nth term of a linear sequence

Name:

Score:

Level 1

Date:

Find the nth of the linear sequences below:

1. 1, 2, 3, 4, ...

2. 4, 8, 12, 16, ...

3. 2, 4, 6, 8, ...

4. 3, 6, 9, 12, ...

5. 4, 7, 10, 13, ...

6. 12, 18, 24, 30, ...

7. 4, 6, 8, 10, ...

8. 7, 11, 15, 19, ...

9. 6, 10, 14, 18, ...

10. 8, 14, 20, 26, ...

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Solution

1. 1, 2, 3, 4, ...

n

2. 4, 8, 12, 16, ...

$4n$

3. 2, 4, 6, 8, ...

$2n$

4. 3, 6, 9, 12, ...

$3n$

5. 4, 7, 10, 13, ...

$3n + 1$

6. 12, 18, 24, 30, ...

$6n + 6$

7. 4, 6, 8, 10, ...

$2n + 2$

8. 7, 11, 15, 19, ...

$4n + 3$

9. 6, 10, 14, 18, ...

$4n + 2$

10. 8, 14, 20, 26, ...

$6n + 2$

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Find the nth of the linear sequences below:

1. 6, 9, 12, 15, ...

2. 7, 8, 9, 10, ...

3. 6, 11, 16, 21, ...

4. 9, 14, 19, 24, ...

5. 4, 5, 6, 7, ...

6. 3, 4, 5, 8, ...

7. 8, 13, 18, 23, ...

8. 5, 6, 7, 8, ...

9. 7, 10, 13, 16, ...

10. 10, 15, 20, 25, ...

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Solution

1. 6, 9, 12, 15, ...

$$3n + 3$$

2. 7, 8, 9, 10, ...

$$n + 6$$

3. 6, 11, 16, 21, ...

$$5n + 1$$

4. 9, 14, 19, 24, ...

$$5n + 4$$

5. 4, 5, 6, 7, ...

$$n + 3$$

6. 3, 4, 5, 8, ...

$$n + 2$$

7. 8, 13, 18, 23, ...

$$5n + 3$$

8. 5, 6, 7, 8, ...

$$n + 4$$

9. 7, 10, 13, 16, ...

$$3n + 4$$

10. 10, 15, 20, 25, ...

$$5n + 5$$