Finding the nth term of a linear sequence

Exercise A

Find expressions for the **n th**. terms of each of the following sequences:

1. 3, 5, 7, 9,... 2. 9,11,13,15,...

3. 7,11,15,19, ... 4. 4,7,10,13,...

5. 5,7,9,11,... 6. 5,9,13,17,...

7. 7,12,17,22,... 8. 2,5,8,11,...

9. 1,5,9,13,... 10. 1,3,5,7,...

11. 7,5,3,1,... 12. 16,13,10,7,...

13. 3,6,9,12,... 14. 7,14,21,28,...

15. 3,8,13,18,... 16. 12,10,8,6,...

17. 1,8,15,22,... 18. 10,20,30,40,...

19. 29,23,17,11,... 20. 0,-4,-8,-12,...

Write down the first three terms of sequences whose **n th.** term is:

21. 3n + 8 \_\_\_\_ \_\_\_\_ ­­\_\_\_\_

22. 6n - 5 \_\_\_\_ \_\_\_\_ ­­\_\_\_\_

23. 9n \_\_\_\_ \_\_\_\_ ­­\_\_\_\_

24. -7n - 1 \_\_\_\_ \_\_\_\_ ­­\_\_\_\_

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Finding the nth term of a linear sequence

Exercise A

Find expressions for the **n th**. terms of each of the following sequences:

1. 3, 5, 7, 9,... 2n + 1 2. 9,11,13,15,... 2n+7

3. 7,11,15,19, ... 4n +3 4. 4,7,10,13,... 3n+1

5. 5,7,9,11,... 2n+3 6. 5,9,13,17,... 4n+1

7. 7,12,17,22,... 5n+2 8. 2,5,8,11,... 3n-1

9. 1,5,9,13,... 4n-3 10. 1,3,5,7,... 2n-1

11. 7,5,3,1,... 9-2n 12. 16,13,10,7,... 19-3n

13. 3,6,9,12,... 3n 14. 7,14,21,28,... 7n

15. 3,8,13,18,... 5n-2 16. 12,10,8,6,... 14-2n

17. 1,8,15,22,... 7n-6 18. 10,20,30,40,... 10n

19. 29,23,17,11,... 35-6n 20. 0,-4,-8,-12,... 4-4n

Write down the first three terms of sequences whose **n th.** term is:

21. 3n + 8 11 14 17

22. 6n - 5 1 7 ­­13

23. 9n 9 18 ­­27

24. -7n - 1 -8 -15 -22