

Finding the n th term of a linear sequence

Exercise A

Find the next two terms and an expressions for the n^{th} term for 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,.....

Exercise B

Find the next two terms and an expressions for the n^{th} term for each of the following sequences:

1. 4,6,8,10,.....
2. 7,10,13,16,.....
3. 9,13,17,21,.....
4. 6,11,16,21,.....
5. 3,7,11,15,.....
6. 5,10,15,20,.....
7. 8,15,22,29,.....
8. 7,13,19,25,.....
9. 4,8,12,16,.....
10. -1,1,3,5,.....
11. 4,9,14,19,.....
12. 9,16,23,30,.....
13. 8,11,14,17,.....
14. 5,3,1,-1,.....
15. -2,-5,-8,-11,.....
16. -10,-20,-30,-40,.....
17. 3,-2,-7,-12,.....
18. 1,4,7,10,.....
19. -6,-8,-10,-12,.....
20. 9,14,19,24,.....