Answer the following:

1. **Find the 12^{th} , 24^{th} and nth term of the A.P given by 9, 13, 17, 21, ….**

   [53, 101, 4n+5]

2. **Show that the sequence 9, 12, 15, 18,.. is an A.P.**

3. **The first term of an A.P is -7 and the common difference 5. Find its 18^{th} term and general term. [78, 5n – 12]**

4. **Determine the 10^{th} term from the end of the A.P 4, 9, 14,… 254. [209]**

5. **Which term of the sequence -1, 3, 7, 11,… is 95? [25]**

6. **Which term of the sequence 4, 9, 14, …. Is 124? [25]**

7. **How many terms are there in the sequence 3, 6, 9 ,12,…. 111? [37]**

8. **Find the middle term of the A.P 6, 13, 20, … 216. [111]**

9. **Find the middle term of the A.P 7, 13, 19,… 241. [121. 127]**

10. **Consider the A.P 2, 5, 8 ,11,…. 302. Show that twice of the middle term of the above A.P is equal to the sum of its first and last term.**

11. If the 8^{th} term of an A.P is 31 and the 15^{th} term is 16 more than the 11^{th} term. Find the A.P. [3, 7, 11….]

12. Which term of the arithmetic progression 5, 15, 25,.. will be 130 more than its 31^{st} term? [44]

13. If the 10^{th} term of an A.P is 52 and 17^{th} term is 20 more than the 13^{th} term, find the A.P.

[7, 12, 17,…]

14. Is 184 a term of the sequence 3, 7, 11,….?

15. The 10^{th} term of an A.P is 52 and 16^{th} term is 82. Find the 32^{nd} term and the general term.

16. The sum of 5^{th} and 9^{th} terms of an A.P is 72 and the sum of 7^{th} and 12^{th} terms is 97. Find the A.P. [11, 16, 21,….]

17. Find the number of integers between 50 and 500 which are divisible by 7.