**Class – X Chapter – 4 Arithmetic Progession(AP)**

1. In an AP, if the common difference (d) = - 4 and the seventh term (a7) is 4, then find the first term.
2. Find the common difference of the AP: 1/p, 1-p/p, 1-2p/p ……………..
3. For what value of k will k + 9, 2k – 1 and 2k + 7 are the consecutive term of an AP.
4. For what value of p, are 2p + 1, 13 and 5p – 3, three consecutive terms of an AP.
5. If k – 1, k +3 and 3k – 1 are in AP, then find the value of k.
6. Find the 25th term of the AP: -5, - 5/2, 0, 5/2, ………
7. Is 68 a term of the AP: 7, 10, 13, ………?
8. If an = 5 – 11n, then find the common difference.
9. Find the sum of first 8 multiple of 3.
10. Find how many two digits numbers are divisible by 6.
11. The 4th term of an AP is zero. Prove that the 25th term of the Ap is three times its 11th term.
12. The 4th term of an AP is 11. The sum of the fifth and seventh terms of the AP is 24. Find its common difference.
13. Find the 7th term from the end of the AP: 7, 10, 13, …., 184.
14. How many terms of AP 18, 16, 14, …. should be taken, so that their sum is zero?
15. Find the number of natural numbers between 101 and 999 which are divisible by both 2 and 5.
16. If the 3rd and 9th terms of an AP are 4 and – 8respectively, then which term of this AP is zero?
17. For what value of n , the nthterm of the AP’s 63, 65, 67 ….and 3, 10, 17,……are equal?