

Arithmetic Progressions : Worksheet -1

1. The common difference of the A.P. 13, 8, 3, -2, ... is ()
 A) 5 B) 10 C) -4 D) -5
2. The 10th term of A.P. 13, 8, 3, -2, is ()
 A) -32 B) 32 C) -57 D) -54
3. If x, y, z, are in A.P., then $2y =$ ()
 A) $x + z$ B) $x - z$ C) \sqrt{xz} D) xz
4. The first term of an A.P. is -1 and the C.D is -3. The 12th term is ()
 A) 34 B) 32 C) -32 D) -34
5. If $\sum n = 210$, then $n =$ ()
 A) 10 B) 20 C) 21 D) 15
6. The nth term of an A.P. is $3n + 5$, Its common difference is ()
 A) $\frac{3}{2}$ B) 3 C) 6 D) 8
7. The sum to n terms of an A.P. is $4n^2 + 5n$. Its common difference is ()
 A) 9 B) 4 C) 8 D) 2
8. In an AP, the first term is 6 and the common difference is $-\frac{4}{3}$. Find the 4th term ()
 A) $\frac{2}{3}$ B) 2 C) $-\frac{2}{3}$ D) $\frac{14}{3}$
9. The first term of an AP is -50 and the 50th term is 48. Find the common difference. ()
 A) 4 B) 1 C) -3 D) 2



10. Find the first term of an AP whose common difference is $\frac{1}{3}$ and the 25th term is 11 ()
- A) 3 B) 5 C) $\frac{2}{3}$ D) $\frac{4}{3}$
11. In an AP, the first term and the last terms are 50 and -50 respectively. The common difference is -10. Find the number of terms in the series. ()
- A) 9 B) 10 C) 11 D) 12
12. The n th term of a sequence is given by $a_n = 4n + 3$. Check whether the sequence is an AP. If yes, find the common difference ()
- A) Not an A.P. B) 3 C) 4 D) 5
13. The value obtained by subtracting the 10th term of an AP from the 17th term is 56. Find the common difference. ()
- A) 7 B) 16 C) 9 D) 8
14. In an AP, the 9th term is -72. The 10th term is 60 less than the 4th term. Find the first term of the AP ()
- A) 8 B) -8 C) -152 D) 10
15. In an AP, the 4th term is 36. The 21st term is 108 more than the 9th term. Find the common difference. ()
- A) 12 B) 9 C) 4 D) -3

