

- Q1. If the 7th and 13th terms of an AP be 34 and 64 respectively , then find its 18th term. Ans. 89
- Q2. If the 7th and 9th terms of an AP be $\frac{1}{9}$ and $\frac{1}{7}$ respectively , then find its 63rd term. Ans. 1
- Q3. If k , $k - 1$ and $2k + 1$ are three consecutive terms of an AP , then find the value of k. Ans. $K = -3$
- Q4. If $2x$, $x + 10$ and $3x + 2$ are three consecutive terms of an AP , then find the value of x . Ans. $x = 6$
- Q5. If $p - 1$, $p + 3$ and $3p - 1$ are in AP , then find the value of p. Ans. $p = 4$
- Q6. If $3y - 1$, $3y + 5$ and $5y + 1$ are in AP , then find the value of y. Ans. $y = 5$
- Q7. What is the common difference of an AP in which $a_{18} - a_{14} = 32$? Ans. $d = 8$
- Q8. What is the common difference of an AP in which $a_{20} - a_{15} = 15$? Ans. $d = 3$
- Q9. If the common difference of an AP is 3 , then what is the value of $a_{18} - a_{13}$? Ans. 15
- Q10. If the common difference of an AP is 8 , then what is the value of $a_{20} - a_{16}$? Ans. 32
- Q11. Which term of the AP : 121 , 117 , 113 , . . . , is first negative term ? Ans. 32nd term
- Q12. Which term of the AP : 53 , 48 , 43 , . . . , is first negative term ? Ans. 12th term
- Q13. Which term of the AP : 114 , 109 , 104 , . . . , is first negative term ? Ans. 24th term
- Q14. The 6th term of an AP is zero. Then its 31st term is _____ times the 11th term. Ans. 5
- Q15. The 17th term of an AP is 5 more than twice its 8th term. If the 11th term of the AP is 43. Find the n^{th} term. Ans. $4n - 1$
- Q16. Determine the AP whose fourth term is 18 and the difference of the 9th term from the 15th term is 30. Ans. 3 , 8 , 13 , . . .
- Q17. The sum of three consecutive terms of an AP is 9. Find the first term. Ans. 3
- Q18. The sum of three consecutive terms of an AP is 36. Find the first term. Ans. 12
- Q19. The sum of three consecutive terms of an AP is 45. Find the first term. Ans. 15
- Q20. Write the first three terms of AP where a_n is defined as below :

(i) $a_n = 3n + 2$ (ii) $a_n = 3 + 4n$ (iii) $a_n = 9 - 5n$ (iv) $a_n = 5n - 3$

Ans. (i) 5 , 8 , 11 , . . . (ii) 7 , 11 , 15 , . . . (iii) 4 , -1 , -6 , . . . (iv) 2 , 7 , 12 , . . .

