

Q. If the common difference of an AP is 3, then find the value of $a_{17} - a_{12}$ (1)

Q. If sum of n terms of an AP is $3n^2 + 5n$, then which of its terms is 164 ? (1)

Q. The first and last terms of an AP are 8 and 65 respectively. If the sum of all its terms is 730, find its common difference (2)

Q. Is 0 a term of the AP: 31, 28, 25,? Justify your answer (2)

Q. The sum of the first seven terms of an AP is 182. If its 4th term and 17th terms are in ratio 1:5, find the AP (3)

Q. Show that $a_1, a_2, a_3, a_4, \dots, a_n$ form an AP where a_n is defined as : $a_n = 9 - 5n$. Also find the sum of the first 15 terms. (3)

Q. Solve the equation: $1 + 4 + 7 + 10 + \dots + x = 287$ (4)

Q. Jaspal Singh repays his loan of 118000 by paying every month starting with the first instalment of Rs. 1000. If he increases the instalment by Rs. 100 every month, what amount will be paid by him in the 3rd instalment? What amount of loan does he still have to pay after the 30th instalment?