

1. What is 18th term of the sequence defined by $a_n = \frac{n(n-3)}{n+4}$
2. Write the A.P., when the first term a is 10 and common difference d is 10.
3. For the following A.P.'s write the first term and the common difference:
 - (i) 3, 1, -1, -3, ...
 - (ii) $\frac{1}{3}, \frac{5}{3}, \frac{9}{3}, \frac{13}{3}, \dots$
 - (iii) 0.6, 1.7, 2.8, ...
4. Find the 18th term and nth term for the sequence 7, 4, 1, -2, -5.
5. Which term of the A.P. 7, 12, 17, is 87?
6. Find the 5th term from the end of the AP, 17, 14, 11,, -40
7. If $2x, x+10, 3x+2$ are in A.P., find the value of x.
8. If the numbers a, b, c, d, e form an A.P., then find the value of $a - 4b + 6c - 4d + e$.
9. Find the sum of the first
 - (i) 100 natural numbers
 - (ii) n natural numbers.
10. If the sum of 7 term of an A.P. is 49 and that of 17 term is 289, find the sum of n terms.