

Q1. The 19th term of an AP is equal to three times its 6th term. If its 9th term is 19, find the AP. Ans. 3, 5, 7, ...

Q2. The 9th term of an AP is equal to six times its 2nd term. If its 5th term is 22, find the AP. Ans. 2, 7, 12, ...

Q3. The sum of 5th and 9th terms of an AP is 30. If its 25th term is three times its 8th term, find the AP. Ans. 3, 5, 7, ...

Q4. How many 2-digit numbers are divisible by 3 ? Ans. 30

Q5. How many 2-digit numbers are divisible by 7 ? Ans. 13

Q6. How many multiples of 4 lie between 10 and 250 ? Ans. 60

Q7. How many multiples of 7 lie between 10 and 350 ? Ans. 48

Q8. How many 3-digit numbers are divisible by 7 ? Ans. 128

Q9. How many 3-digit numbers are divisible by 9 ? Ans. 100

Q10. Which term of the AP : 3, 10, 17, ... will be 84 more than its 13th term ? Ans. 25th

Q11. Which term of the AP : 3, 15, 27, ... will be 132 more than its 54th term ? Ans. 65th

Q12. Which term of the AP : 8, 14, 20, ... will be 72 more than its 41st term ? Ans. 53rd

Q13. Which term of the AP : 5, 15, 25, ... will be 130 more than its 31st term ? Ans. 44th

Q14. For what value of n, are the nth term of the two APs : 63, 65, 67, ... and 3, 10, 17, ... equal ? Ans. 13th

Q15. For what value of n, are the nth term of the two APs : 13, 19, 25, ... and 69, 68, 67, ... equal ? Ans. 9th

Q16. For what value of n, are the nth term of the two APs : 48, 50, 52, ... and 4, 10, 16, ... equal ? Ans. 12th

Q17. Two APs have the same common difference. The difference between their 100th terms is 100. What is the difference between their 1000th terms ? Ans. 100

Q18. Two APs have the same common difference. The difference between their 50th terms is 30. What is the difference between their 70th terms ? Ans. 30

Q19. In the following APs, find the missing terms :

(i) 2, $\boxed{\quad}$, 26

(ii) 4, $\boxed{\quad}$, 38

(iii) 5, $\boxed{\quad}$, $\boxed{\quad}$, $9\frac{1}{2}$

(iv) 7, $\boxed{\quad}$, $\boxed{\quad}$, $14\frac{1}{2}$

(v) -4, $\boxed{\quad}$, $\boxed{\quad}$, $\boxed{\quad}$, $\boxed{\quad}$, 6

(vi) -8, $\boxed{\quad}$, $\boxed{\quad}$, $\boxed{\quad}$, $\boxed{\quad}$, 12

(vii) $\boxed{\quad}$, 13, $\boxed{\quad}$, 3

(viii) $\boxed{\quad}$, 18, $\boxed{\quad}$, 6

(ix) $\boxed{\quad}$, 38, $\boxed{\quad}$, $\boxed{\quad}$, $\boxed{\quad}$, -22

Ans. (i) 14 (ii) 21 (iii) $6\frac{1}{2}$, 8 (iv) $9\frac{1}{2}$, 12 (v) -2, 0, 2, 4 (vi) -4, 0, 4, 8

(vii) 18, 8 (viii) 24, 12 (ix) 53, 23, 8, -7

