

Arithmetic Progression Worksheet-2

Question 1

For what value of a , are $(2a-1)$, 7 and $3a$ three consecutive terms of an A.P?

Question 2

How many multiples of 4 lie between 10 and 250 ?

Question 3

Find the value of p , so that $(3p + 7)$, $(2p+5)$, $(2p + 7)$ are in A.P

Question 4

If S_n , the sum of first n terms of an A.P is given by

$$S_n = 3n^2 - 4n$$

then find its n th term

Question 5

Find the value of the middle most term (s) of the AP
 $-11, -7, -3, \dots, 49$.

Question 6

Solve the equation:

$$1 + 4 + 7 + 10 + \dots + x = 287$$

Question 7

Find the sum of the following A.P: $1 + 3 + 5 + \dots + 199$.

Question 8

The 4th term of an A.P is equal to 3 times the first term and the 7th term exceeds twice the 3rd term by 1. Find the A.P

Question 9

The sum of n terms of an A.P. is $3n^2 + 5n$. Find the A.P. Hence, find its 16th term

Question 10

The angles of a triangle are in A.P, the last being half the greatest. Find the angles

Answer

- 1) $(a=3)$
- 2) 60
- 3) $(p= -4)$
- 4) $(6n - 7)$
- 5) 17,21
- 6) 40
- 7) (10000)
- 8) $(3, 5, 7, \dots)$
- 9) $(6n + 2, 98)$
- 10) $(40^\circ, 60^\circ, 80^\circ)$