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$2x - x - 2 = 2x + 3 - 2x$
$x - 2 = 3$
$x = 2 + 3 = 5$
The value of x is 5.

Question 5:
Show that $(a - b)^2$, $(a^2 + b^2)$ and $(a + b)^2$ are in AP.
Solution:
Assume that $(a - b)^2$, $(a^2 + b^2)$ and $(a + b)^2$ are in AP.
So, $(a^2 + b^2) - (a - b)^2 = (a + b)^2 - (a^2 + b^2)$
$(a^2 + b^2) - (a^2 + b^2 - 2ab) = a^2 + b^2 + 2ab - a^2 - b^2$
$2ab = 2ab$
Which is true.
Hence given terms are in AP.

Question 6:
Find three numbers in AP whose sum is 15 and product is 80.
Solution:
Let a – d, a, a + d are three numbers in AP.

So, their sum = a – d + a + a + d = 15

$3a = 15$
or a = 5
Again,
Their Product = $(a - d) \times a \times (a + d) = 80$
$a(a^2 - d^2) = 80$
$5(5^2 - d^2) = 80$
$25 - d^2 = 16$
$d^2 = 25 - 16 = 9 = (\pm 3)^2$
or d = ±3
d = 3 or d = -2
We have 2 conditions here:
At a = 5, d = 3
Numbers are: 2, 5 and 8

At a = 5 and d = -3
Numbers are : 8, 5, 2

Question 7:
The sum of three numbers in AP is 3 and their product is -35. Find the numbers.

Sequences and nth terms

1. Write the first 6 terms of each sequence.

a. 2n + 1	b. 5n	c. 2n - 2
d. 3n + 4	e. 3n - 1	f. 4n - 3
g. 2n + 5	h. 3n + 2	i. n - 3
j. 3n - 5	k. 10 - n	l. 20 - 3n
m. 30 - 2n	n. n(n + 1)	o. (n - 1)(n + 1)
p. n^2	q. $2n^2$	r. $(2n)^2$
s. $\frac{1}{n}$	t. $\frac{n}{2n+1}$	u. $\frac{2n+1}{n+2}$

2. For each of the sequences in question 1 find the value of term 10 and term 50.
Part (a) has been done as an example.
a. 2n + 1   Term 10 = 20 + 1 = 21
              Term 50 = 100 + 1 = 101

3. Find the nth term for each of these sequences, then find the value of term 20.

a. 1, 3, 5, 7, 9, 11	b. 3, 6, 9, 12, 15, 18
c. 1, 4, 7, 10, 13, 16	d. 7, 11, 15, 19, 23, 27
e. 4, 7, 10, 13, 16, 19	f. 4, 14, 24, 34, 44, 54
g. 17, 19, 21, 23, 25, 27	h. 2, 6, 10, 14, 18, 22
i. 8, 10, 12, 14, 16, 18	j. 3, 4, 5, 6, 7, 8
k. -4, -1, 2, 5, 8, 11	l. 20, 18, 16, 14, 12, 10
m. 7, 4, 1, -2, -5, -8	n. 25, 21, 17, 13, 9, 5
o. $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}$	p. $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}$

4. You are given the term to term rule for each sequence and the value of the third term.
Work out the first term.
a. Multiply the previous term by 2 then subtract 3   Third term = 27
b. Multiply the previous term by 2 then add 4   Third term = 32
c. Multiply the previous term by 3 then subtract 1   Third term = 59
d. Add 4 to the previous term then multiply by 2   Third term = 36

5.
a. Find which term in the sequence 3n + 1 has the value 76.
b. Find which term in the sequence 2n - 5 has the value 31.
c. Find which term in the sequence 4n - 2 has the value 82.

6.
a. Is 37 a term in the sequence 4n - 1?
b. Is 71 a term in the sequence 2n + 3?
c. Is 60 a term in the sequence 5n + 4?
d. Is 40 a term in the sequence 3n - 5?
e. Which is the first term greater than 100 in the sequence 4n - 5?

$T_n = a + (n - 1)d$
So, $78 = a + (n - 1)d$
$78 = 3 + (n - 1)5$
$78 = 3 + 5n - 5$
$78 = -2 + 5n$
$5n = 78 + 2$
$5n = 80$
$n = 80/5$
$n = 16$
Therefore, 78 is 16th term.

(ii) 18, 15½, 13, … is – 47?
Solution:-
Convert mixed fraction into improper fraction = 15½ = 31/2
Let us assume -47 as nth term.
From the question,
The first term a = 18
Then, difference d = 31/2 – 18 = (31 – 36)/2 = -5/2
                    13 – 31/2 = (26 - 31)/2 = -5/2
Therefore, common difference d = -5/2
$T_n = a + (n - 1)d$
So, -47 = a + (n - 1)d
$-47 = 18 + (n - 1) (-5/2)$
$-47 = 18 - 5/2n + 5/2$
$-47 - 18 = -5/2n + 5/2$
$-65 = -5/2n + 5/2$
$-65 - 5/2 = -5/2n$
$(-130 - 5)/2 = -5/2n$
$-135/2 = -5/2n$
$n = (-135/2) \times (-2/5)$
$n = -135/-5$
$n = 27$
Therefore, -47 is 27th term.

6. (i) Check whether – 150 is a term of the A.P. 11, 8, 5, 2, …
Solution:-
From the question it is given that,

12. Show that a_1, a_2, a_3, ... form an A.P. where a_n is defined as $a_n = 3 + 4n$. Also find the sum of first 15 terms.

Solution:-

From the question it is given that,

n^{th} term is $3 + 4n$

So, $a_n = 3 + 4n$

Now, we start giving values, 1, 2, 3, ... in the place of n, we get,

$a_1 = 3 + (4 \times 1) = 3 + 4 = 7$

$a_2 = 3 + (4 \times 2) = 3 + 8 = 11$

$a_3 = 3 + (4 \times 3) = 3 + 12 = 15$

$a_4 = 3 + (4 \times 4) = 3 + 16 = 19$

So, The numbers are 7, 11, 15, 19, ...

Then, first term a = 7, common difference d = 11 − 7 = 4

We know that,

$S_{15} = (n/2) (2a + (n - 1)d)$

$= (15/2) ((2 \times 7) + (15 - 1) \times 4)$

$= (15/2) (14 + (14 \times 4))$

$= (15/2) (14 + 56)$

$= (15/2) \times 70$

$= 525$

Therefore, the sum of first 15 terms is 525.

13. The sum of first six terms of an arithmetic progression is 42. The ratio of the 10th term to the 30th term is 1: 3. Calculate the first and the thirteenth term.

Solution:

Given,

$S_6 = 42$ and $T_{10}/T_{30} = 1/3$

We know that,

$S_n = (n/2) (2a + (n - 1)d)$

$T_n = a + (n - 1)d$

So, we have

$S_6 = (6/2) \times [2a + (6 - 1)d] = 42$

$3 \times (2a + 5d) = 42$

$2a + 5d = 14 ... (i)$　　　　[Dividing by 3]

And,

$T_{10}/T_{30} = [a + (10 - 1)d]/ [a + (30 - 1)d] = 1/3$

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