

Solutions – Arithmetic Sequences (A)

Find the n th term of the sequence 0, -2, -4, -6, ...

$$-2n + 2$$

The n th term of a sequence is $5n - 4$. Which term equals 121?

$$25$$

Find the n th term of the sequence 2, -1, -4, -7, ...

$$-3n + 5$$

Find the next two terms of the sequence -2, 1, 4, 7, ...

$$10, 13$$

Find the next two terms of the sequence -5, -9, -13, -17, ...

$$-21, -25$$

The n th term of a sequence is $-4n + 16$. Which term equals -52?

$$17$$

Solutions – Arithmetic Sequences (B)

Find the n th term of the sequence 1, -1, -3, -5, ...

$$-2n + 3$$

The n th term of a sequence is $-2n + 5$. Which term equals -43 ?

$$24$$

The n th term of a sequence is $4n + 7$. Find the 13th term.

$$59$$

Find the n th term of the sequence -1, 3, 7, 11, ...

$$4n - 5$$

Find the next two terms of the sequence 15, 11, 7, 3, ...

$$-1, -5$$

Find the next two terms of the sequence 7, 9, 11, 13, ...

$$15, 17$$

Solutions – Arithmetic Sequences (C)

The n th term of a sequence is $4n - 8$. Find the 29th term.

108

Find the n th term of the sequence 0, 5, 10, 15, ...

$5n - 5$

Find the next two terms of the sequence 20, 25, 30, 35, ...

40, 45

Find the n th term of the sequence $-3, -5, -7, -9, \dots$

$-2n - 1$

Find the next two terms of the sequence 13, 9, 5, 1, ...

$-3, -7$

The n th term of a sequence is $2n - 5$. Find the 16th term.

27

Solutions – Arithmetic Sequences (D)

Find the next two terms of the sequence 3, 1, -1, -3, ...

$-5, -7$

The n th term of a sequence is $5n - 8$. Find the 25th term.

117

Find the next two terms of the sequence 3, 6, 9, 12, ...

$15, 18$

Find the n th term of the sequence 6, 4, 2, 0, ...

$-2n + 8$

Find the n th term of the sequence 3, 5, 7, 9, ...

$2n + 1$

The n th term of a sequence is $2n - 5$. Find the 21th term.

37

Solutions – Arithmetic Sequences (E)

Find the n th term of the sequence 6, 4, 2, 0, ...

$$-2n + 8$$

Find the next two terms of the sequence $-6, -10, -14, -18, \dots$

$$-22, -26$$

The n th term of a sequence is $3n + 12$. Find the 19th term.

$$69$$

Find the n th term of the sequence $-6, -1, 4, 9, \dots$

$$5n - 11$$

Find the next two terms of the sequence $-3, -5, -7, -9, \dots$

$$-11, -13$$

The n th term of a sequence is $4n + 11$. Find the 11th term.

$$55$$

Solutions – Arithmetic Sequences (F)

The n th term of a sequence is $-4n + 2$. Find the 21th term.

-82

Find the next two terms of the sequence 3, 1, -1 , -3 , ...

$-5, -7$

Find the n th term of the sequence 13, 10, 7, 4, ...

$-3n + 16$

Find the next two terms of the sequence 10, 8, 6, 4, ...

$2, 0$

Find the n th term of the sequence 8, 11, 14, 17, ...

$3n + 5$

The n th term of a sequence is $4n + 4$. Find the 12th term.

52

Solutions – Arithmetic Sequences (G)

The n th term of a sequence is $-2n + 12$. Which term equals -42 ?

27

The n th term of a sequence is $2n - 11$. Which term equals 11?

11

Find the n th term of the sequence $-2, -5, -8, -11, \dots$

$-3n + 1$

Find the next two terms of the sequence $18, 22, 26, 30, \dots$

34, 38

Find the n th term of the sequence $-6, -9, -12, -15, \dots$

$-3n - 3$

Find the next two terms of the sequence $-4, -8, -12, -16, \dots$

$-20, -24$

Solutions – Arithmetic Sequences (H)

Find the n th term of the sequence 6, 9, 12, 15, ...

$$3n + 3$$

The n th term of a sequence is $-4n + 1$. Which term equals -103 ?

$$26$$

Find the next two terms of the sequence $-3, 2, 7, 12, \dots$

$$17, 22$$

Find the n th term of the sequence $-2, 2, 6, 10, \dots$

$$4n - 6$$

The n th term of a sequence is $-4n - 6$. Find the 20th term.

$$-86$$

Find the next two terms of the sequence 17, 15, 13, 11, ...

$$9, 7$$

Solutions – Arithmetic Sequences (I)

The n th term of a sequence is $5n - 5$. Which term equals 65?

14

Find the n th term of the sequence 10, 15, 20, 25, ...

$5n + 5$

Find the next two terms of the sequence 9, 5, 1, -3, ...

-7, -11

Find the next two terms of the sequence 16, 14, 12, 10, ...

8, 6

Find the n th term of the sequence 9, 11, 13, 15, ...

$2n + 7$

The n th term of a sequence is $-2n + 14$. Which term equals -20?

17

Solutions – Arithmetic Sequences (J)

The n th term of a sequence is $-2n + 1$. Which term equals -19 ?

10

Find the next two terms of the sequence 18, 14, 10, 6, ...

2, -2

Find the next two terms of the sequence 9, 5, 1, -3, ...

-7, -11

Find the n th term of the sequence 7, 4, 1, -2, ...

$-3n + 10$

Find the n th term of the sequence -2, -5, -8, -11, ...

$-3n + 1$

The n th term of a sequence is $3n - 10$. Which term equals 68?

26