Solutions – Arithmetic Sequences (A)

–2, –11, –20, –29, ... Find a formula for the n^{th} term.

$a_n = -9n + 7$

11, 22, 33, 44, ... Find a formula for the n^{th} term.

$a_n = 11n$

–16, –17, –18, –19, ... Find a formula for the n^{th} term.

$a_n = -n - 15$

10, 24, 38, 52, ... Find a formula for the n^{th} term.

$a_n = 14n - 4$

6, 7, 8, 9, ... Find a formula for the n^{th} term.

$a_n = n + 5$

18, 3, –12, –27, ... Find a formula for the n^{th} term.

$a_n = -15n + 33$

Solutions – Arithmetic Sequences (B)

17, 11, 5, –1, ... Find a formula for the n^{th} term.

$a_n = -6n + 23$

13, 18, 23, 28, ... Find a formula for the n^{th} term.

$a_n = 5n + 8$

16, 14, 12, 10, ... Find a formula for the n^{th} term.

$a_n = -2n + 18$

–8, –16, –24, –32, ... Find a formula for the n^{th} term.

$a_n = -8n$

–14, –3, 8, 19, ... Find a formula for the n^{th} term.

$a_n = 11n - 25$

–14, –9, –4, 1, ... Find a formula for the n^{th} term.

$a_n = 5n - 19$

Solutions – Arithmetic Sequences (C)

–2, 11, 24, 37, ... Find a formula for the n^{th} term.

$a_n = 13n - 15$

–11, –5, 1, 7, ... Find a formula for the n^{th} term.

$a_n = 6n - 17$

–18, –32, –46, –60, ... Find a formula for the n^{th} term.

$a_n = -14n - 4$

5, 1, –3, –7, ... Find a formula for the n^{th} term.

$a_n = -4n + 9$

–2, –3, –4, –5, ... Find a formula for the n^{th} term.

$a_n = -n - 1$

4, 7, 10, 13, ... Find a formula for the n^{th} term.

$a_n = 3n + 1$

Solutions – Arithmetic Sequences (D)

10, 14, 18, 22, ... Find a formula for the n^{th} term.

$a_n = 4n + 6$

–2, 4, 10, 16, ... Find a formula for the n^{th} term.

$a_n = 6n - 8$

–8, –18, –28, –38, ... Find a formula for the n^{th} term.

$a_n = -10n + 2$

6, 10, 14, 18, ... Find a formula for the n^{th} term.

$a_n = 4n + 2$

–16, –19, –22, –25, ... Find a formula for the n^{th} term.

$a_n = -3n - 13$

6, 1, –4, –9, ... Find a formula for the n^{th} term.

$a_n = -5n + 11$

Solutions – Arithmetic Sequences (E)

6, 14, 22, 30, ... Find a formula for the n^{th} term.

$a_n = 8n - 2$

–11, –2, 7, 16, ... Find a formula for the n^{th} term.

$a_n = 9n - 20$

–15, –21, –27, –33, ... Find a formula for the n^{th} term.

$a_n = -6n - 9$

–13, –27, –41, –55, ... Find a formula for the n^{th} term.

$a_n = -14n + 1$

–15, –8, –1, 6, ... Find a formula for the n^{th} term.

$a_n = 7n - 22$

19, 14, 9, 4, ... Find a formula for the n^{th} term.

$a_n = -5n + 24$

Solutions – Arithmetic Sequences (F)

20, 19, 18, 17, ... Find a formula for the n^{th} term.

$a_n = -n + 21$

–13, –5, 3, 11, ... Find a formula for the n^{th} term.

$a_n = 8n - 21$

–2, 6, 14, 22, ... Find a formula for the n^{th} term.

$a_n = 8n - 10$

–15, –30, –45, –60, ... Find a formula for the n^{th} term.

$a_n = -15n$

16, 26, 36, 46, ... Find a formula for the n^{th} term.

$a_n = 10n + 6$

–4, –13, –22, –31, ... Find a formula for the n^{th} term.

$a_n = -9n + 5$

Solutions – Arithmetic Sequences (G)

–16, –7, 2, 11, ... Find a formula for the n^{th} term.

$a_n = 9n - 25$

6, –7, –20, –33, ... Find a formula for the n^{th} term.

$a_n = -13n + 19$

–12, –10, –8, –6, ... Find a formula for the n^{th} term.

$a_n = 2n - 14$

–13, –28, –43, –58, ... Find a formula for the n^{th} term.

$a_n = -15n + 2$

16, 29, 42, 55, ... Find a formula for the n^{th} term.

$a_n = 13n + 3$

9, –4, –17, –30, ... Find a formula for the n^{th} term.

$a_n = -13n + 22$

Solutions – Arithmetic Sequences (H)

4, –5, –14, –23, ... Find a formula for the n^{th} term.

$a_n = -9n + 13$

13, 16, 19, 22, ... Find a formula for the n^{th} term.

$a_n = 3n + 10$

3, 1, –1, –3, ... Find a formula for the n^{th} term.

$a_n = -2n + 5$

14, –1, –16, –31, ... Find a formula for the n^{th} term.

$a_n = -15n + 29$

–20, –17, –14, –11, ... Find a formula for the n^{th} term.

$a_n = 3n - 23$

9, 24, 39, 54, ... Find a formula for the n^{th} term.

$a_n = 15n - 6$

Solutions – Arithmetic Sequences (I)

18, 29, 40, 51, ... Find a formula for the n^{th} term.

$a_n = 11n + 7$

–1, –10, –19, –28, ... Find a formula for the n^{th} term.

$a_n = -9n + 8$

–1, 14, 29, 44, ... Find a formula for the n^{th} term.

$a_n = 15n - 16$

15, 7, –1, –9, ... Find a formula for the n^{th} term.

$a_n = -8n + 23$

19, 21, 23, 25, ... Find a formula for the n^{th} term.

$a_n = 2n + 17$

–15, –18, –21, –24, ... Find a formula for the n^{th} term.

$a_n = -3n - 12$

Solutions – Arithmetic Sequences (J)

8, 21, 34, 47, ... Find a formula for the n^{th} term.

$a_n = 13n - 5$

6, 16, 26, 36, ... Find a formula for the n^{th} term.

$a_n = 10n - 4$

–8, –9, –10, –11, ... Find a formula for the n^{th} term.

$a_n = -n - 7$

4, –7, –18, –29, ... Find a formula for the n^{th} term.

$a_n = -11n + 15$

9, 22, 35, 48, ... Find a formula for the n^{th} term.

$a_n = 13n - 4$

–13, –15, –17, –19, ... Find a formula for the n^{th} term.

$a_n = -2n - 11$