Name : _____

General Term

L2S1

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = 1.5 + 2.3(n + 1)$

2) $a_n = 10\sqrt{7} - 3\sqrt{7}\,n$

3) $a_n = \frac{3}{7} - \frac{1}{4}(n +$

5) $a_n = 17 + 7n$

Write the general

7) $\frac{8}{45}, -\frac{19}{45}, -\frac{46}{45}, -$

1)

34.8, 42, ...

9) $-1.4, -3, -4.6, -6.2, -7.8, \ldots$

10) 133, 118, 103, 88, 73, ...

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Name : _____ **Answer key**

L2S1

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = 1.5 + 2.3(n + 1)$

6.1, 8.4, 10.7, 13, 15.3, ...

2) $a_n = 10\sqrt{7} - 3\sqrt{7}\,n$

$7\sqrt{7}, 4\sqrt{7}, \sqrt{7}, -2\sqrt{7}, -5\sqrt{7}, \ldots$

3) $a_n = \frac{3}{7} - \frac{1}{4}(n +$

$-\frac{1}{14}, -\frac{9}{28}, -$

, 2, 4.1, 6.2, ...

5) $a_n = 17 + 7n$

1)

24, 31, 3

27, –37, –47, ...

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Write the general

7) $\frac{8}{45}, -\frac{19}{45}, -\frac{46}{45}, -$

34.8, 42, ...

$a_n = \frac{7}{9} - \frac{3}{5}n$

$a_n = 6 + 7.2n$

9) –1.4, –3, –4.6, –6.2, –7.8, ...

10) 133, 118, 103, 88, 73, ...

$a_n = 0.2 - 1.6n$

$a_n = 148 - 15n$

Name : _____

General Term

L2S2

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = -59 + 5n$

2) $a_n = 22 + 0.7(n - 1)$

3) $a_n = -2.5 - 6.5(r$ ... 1)

5) $a_n = \frac{1}{3} + \frac{1}{4}(n -$ ... - 1)

Write the general

7) 34.1, 49.1, 64.1, ... 38, −30, ...

9) $\frac{44}{35}, \frac{58}{35}, \frac{72}{35}, \frac{86}{35}, \frac{20}{7}, \ldots$

10) $\sqrt{50}, \sqrt{32}, \sqrt{18}, \sqrt{8}, \sqrt{2}, \ldots$

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Name : _____ **Answer key**

L2S2

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = -59 + 5n$

−54, −49, −44, −39, −34, ...

2) $a_n = 22 + 0.7(n - 1)$

22, 22.7, 23.4, 24.1, 24.8, ...

3) $a_n = -2.5 - 6.5(r$ 1)

−15.5, −22, −2

$\frac{19}{40}, -\frac{7}{8}, -\frac{51}{40}$, ...

5) $a_n = \frac{1}{3} + \frac{1}{4}(n -$ - 1)

$\frac{1}{3}, \frac{7}{12},$

8, 24.5, 31, ...

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Write the general

7) 34.1, 49.1, 64.1, 38, −30, ...

$a_n = 19.1 + 15n$

$a_n = -70 + 8n$

9) $\frac{44}{35}, \frac{58}{35}, \frac{72}{35}, \frac{86}{35}, \frac{20}{7}$, ...

$a_n = \frac{6}{7} + \frac{2}{5}n$

10) $\sqrt{50}, \sqrt{32}, \sqrt{18}, \sqrt{8}, \sqrt{2}$, ...

$a_n = 6\sqrt{2} - \sqrt{2}n$

Name : _____

General Term

L2S3

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = 6.4 - 2.6(n - 1)$

2) $a_n = 79 + 3n$

3) $a_n = -13\sqrt{5} + 4$

$9(n + 1)$

5) $a_n = 114 + 33(n$

Write the general

7) 97, 86, 75, 64, 5

12.8, ...

9) $-2.9, -7.9, -12.9, -17.9, -22.9, \ldots$

10) $-\frac{31}{18}, -\frac{2}{9}, \frac{23}{18}, \frac{25}{9}, \frac{77}{18}, \ldots$

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Name : _____ **Answer key**

L2S3

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = 6.4 - 2.6(n - 1)$

6.4, 3.8, 1.2, –1.4, –4, ...

2) $a_n = 79 + 3n$

82, 85, 88, 91, 94, ...

3) $a_n = -13\sqrt{5} + 4$

$-5\sqrt{5}, -\sqrt{5}, 3$

$9(n + 1)$

).7, 42.6, 54.5, ...

5) $a_n = 114 + 33(n$

114, 147, 1

$\frac{51}{14}, -\frac{36}{7}, -\frac{93}{14}, \ldots$

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Write the general

7) 97, 86, 75, 64, 5

12.8, ...

$a_n = 108 - 11n$

$a_n = 3.8 + 1.8n$

9) –2.9, –7.9, –12.9, –17.9, –22.9, ...

$a_n = 2.1 - 5n$

10) $-\frac{31}{18}, -\frac{2}{9}, \frac{23}{18}, \frac{25}{9}, \frac{77}{18}, \ldots$

$a_n = -\frac{29}{9} + \frac{3}{2}n$

Name : _____

General Term

L2S4

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = \frac{5}{4} - \frac{3}{7}(n - 1)$

2) $a_n = -55 - 7(n - 1)$

3) $a_n = 87 - 22n$

5) $a_n = -3.4 + 0.1(r$

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Write the general

7) $2\sqrt{6}, 5\sqrt{6}, 8\sqrt{6}$

..., $\frac{67}{21}$, ...

9) –9, –28, –47, –66, –85, ...

10) 1.5, –0.5, –2.5, –4.5, –6.5, ...

Name : _____ **Answer key**

L2S4

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = \frac{5}{4} - \frac{3}{7}(n - 1)$

$\frac{5}{4}, \frac{23}{28}, \frac{11}{28}, -\frac{1}{28}, -\frac{13}{28}, \ldots$

2) $a_n = -55 - 7(n - 1)$

$-55, -62, -69, -76, -83, \ldots$

3) $a_n = 87 - 22n$

$65, 43, 2$

$+ 1)$

$\frac{25}{6}, -\frac{59}{12}, -\frac{17}{3}, \ldots$

5) $a_n = -3.4 + 0.1(r$

$+ 3)$

$-3.5, -3.4, -$

$.5, 0.3, 0.1, \ldots$

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Write the general

7) $2\sqrt{6}, 5\sqrt{6}, 8\sqrt{6}$

$\ldots, \frac{67}{21}, \ldots$

$a_n = -\sqrt{6} + 3\sqrt{6}n$

$a_n = -\frac{41}{42} + \frac{5}{6}n$

9) $-9, -28, -47, -66, -85, \ldots$

$a_n = 10 - 19n$

10) $1.5, -0.5, -2.5, -4.5, -6.5, \ldots$

$a_n = 3.5 - 2n$

Name : _____

L2S5

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = -5 + 19n$

2) $a_n = -2.3 + 3(n - 1)$

3) $a_n = -\frac{11}{8} + \frac{7}{3}(r$ ...3)

5) $a_n = 13.8 - 5.3(r$ ...n

Write the general

7) $-\frac{4}{7}, -\frac{47}{21}, -\frac{82}{21}, -$ ...9, 42.2, ...

9) $-11.6, -17.6, -23.6, -29.6, -35.6, \ldots$

10) $1, 9, 17, 25, 33, \ldots$

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Name : _____ **Answer key**

L2S5

General Term

Part A

Write the arithmetic sequence using the given general term.

1) $a_n = -5 + 19n$

14, 33, 52, 71, 90, ...

2) $a_n = -2.3 + 3(n - 1)$

–2.3, 0.7, 3.7, 6.7, 9.7, ...

3) $a_n = -\frac{11}{8} + \frac{7}{3}(n$

$-\frac{11}{8}, \frac{23}{24},$

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Write the general

7) $-\frac{4}{7}, -\frac{47}{21}, -\frac{82}{21}, -$

$a_n = \frac{23}{21} - \frac{5}{3}n$

9) –11.6, –17.6, –23.6, –29.6, –35.6, ...

$a_n = -5.6 - 6n$

10) 1, 9, 17, 25, 33, ...

$a_n = -7 + 8n$