

Recursive FormulaPart A

Write the arithmetic sequence using recursive formula.

1) $a_n = a_{n-1} + 200 ; a_1 = 10$

2) $a_n = a_{n-1} + \frac{1}{4} ; a_1 = \frac{1}{3}$

3) $a_n = a_{n-1} - 1.5 ; a_1 = 2\sqrt{5}$

$a_1 = 2\sqrt{5}$

5) $a_n = a_{n-1} + 5 ; a_1 = -1$

$a_1 = -1$

Write the recursive formula for the arithmetic sequence.

7) $\frac{2}{3}, \frac{7}{6}, \frac{5}{3}, \frac{13}{6}, \frac{8}{3}, \dots$

$\frac{2}{3}, \dots$

9) $-60, -53, -46, -39, -32, \dots$

10) $3.5, 9, 14.5, 20, 25.5, \dots$

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Recursive Formula

Part A

Write the arithmetic sequence using recursive formula.

1) $a_n = a_{n-1} + 200 ; a_1 = 10$

10, 210, 410, 610, 810, ...

2) $a_n = a_{n-1} + \frac{1}{4} ; a_1 = \frac{1}{3}$

$\frac{1}{3}, \frac{7}{12}, \frac{5}{6}, \frac{13}{12}, \frac{4}{3}, \dots$

3) $a_n = a_{n-1} - 1.5 ; a_1 = 2\sqrt{5}$

-2.4, -3.9, -5.4, ...

$a_1 = 2\sqrt{5}$

$-\sqrt{5}, -2\sqrt{5}, \dots$

5) $a_n = a_{n-1} + 5 ; a_1 = -50$

-50, -45, -40, ...

$a_1 = -1$

-5, -7, -9, ...

Write the recursive formula for the arithmetic sequence.

7) $\frac{2}{3}, \frac{7}{6}, \frac{5}{3}, \frac{13}{6}, \frac{8}{3}, \dots$

$a_n = a_{n-1} + \frac{1}{2}$

$a_1 = 2, \dots$

$a_n = a_{n-1} + 8$

9) -60, -53, -46, -39, -32, ...

$a_n = a_{n-1} + 7$

10) 3.5, 9, 14.5, 20, 25.5, ...

$a_n = a_{n-1} + 5.5$

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