

Recursive Formulas for Arithmetic Sequences

A) Write the arithmetic sequence using the recursive formula.

1) $a_n = a_{n-1} + 50 ; a_1 = -2$

2) $a_n = a_{n-1} - 21 ; a_1 = 120$

3) $a_n = a_{n-1} + \frac{1}{11} ; a_1 = \frac{7}{11}$

4) $a_n = a_{n-1} - 2.4 ; a_1 = -1.5$

5) $a_n = a_{n-1} + 32 ; a_1 = 15$

6) $a_n = a_{n-1} - 2\sqrt{7} ; a_1 = 11\sqrt{7}$

B) Write the recursive formula for each arithmetic sequence.

1) 33, 36, 39, 42, 45, ...

2) 1.1, 8.8, 16.5, 24.2, 31.9, ...

3) $-\frac{3}{5}, -\frac{2}{5}, -\frac{1}{5}, 0, \frac{1}{5}, \dots$

4) -1, -20, -39, -58, -77, ...
