

Recursive Sequences

Given the first term, use the recursive formula to find the next four terms of the sequence.

1. $a_1 = 4$
 $a_n = a_{n-1} - 3$

2. $a_1 = 12$
 $a_n = a_{n-1} + 4$

3. $a_1 = 24$
 $a_n = a_{n-1} + 7$

4. $a_1 = -5$
 $a_n = a_{n-1} + 13$

5. $a_1 = -10$
 $a_n = a_{n-1} - 4$

6. $a_1 = 33$
 $a_n = a_{n-1} - 7$

Choose the recursive formula that describes the sequence.

7. 3, 9, 15, 21, ...

A. $a_n = a_{n-1} + 5$

B. $a_n = a_{n-1} - 6$

C. $a_n = a_{n-1} + 6$

8. 4, 1, -2, -5, ...

A. $a_n = a_{n-1} + 3$

B. $a_n = a_{n-1} - 3$

C. $a_n = a_{n-1} - 2$

9. 15, 19, 23, 27, ...

A. $a_n = a_{n-1} + 4$

B. $a_n = a_{n-1} - 4$

C. $a_n = a_{n-1} + 3$

10. -4, -6, -8, -10, ...

A. $a_n = a_{n-1} + 3$

B. $a_n = a_{n-1} - 3$

C. $a_n = a_{n-1} - 2$