

Find the explicit formula.

1) $-5, -205, -405, -605, \dots$

A) $a_n = 194 - 199n$

B) $a_n = 196 - 201n$

C) $a_n = 197 - 202n$

D) $a_n = 195 - 200n$

2) $25, 55, 85, 115, \dots$

A) $a_n = -2 + 27n$

B) $a_n = -4 + 29n$

C) $a_n = -3 + 28n$

D) $a_n = -5 + 30n$

Find the 52nd term, the explicit formula, and the recursive formula.

3) $-6, 0, 6, 12, \dots$

4) $9, 18, 27, 36, \dots$

Find the recursive formula.

5) $2, -8, 32, -128, \dots$

A) $a_n = a_{n-1} \cdot 2$
 $a_1 = 1$

B) $a_n = a_{n-1} \cdot 2$
 $a_1 = 2$

C) $a_n = a_{n-1} \cdot -4$
 $a_1 = 2$

D) $a_n = a_{n-1} \cdot 3$
 $a_1 = 2$

6) $4, -12, 36, -108, \dots$

A) $a_n = a_{n-1} \cdot -3$
 $a_1 = 4$

B) $a_n = a_{n-1} \cdot -3$
 $a_1 = 3$

C) $a_n = a_{n-1} \cdot 4$
 $a_1 = 4$

D) $a_n = a_{n-1} \cdot 3$
 $a_1 = -3$

Find the term named in the problem, the explicit formula, and the recursive formula.

7) $-3, -9, -27, -81, \dots$

Find a_{11}

8) $-1, 2, -4, 8, \dots$

Find a_{11}

Find the missing term or terms in each arithmetic sequence.

9) $\dots, -20, \underline{\quad}, \underline{\quad}, \underline{\quad}, 100, \dots$

10) $\dots, 25, \underline{\quad}, \underline{\quad}, \underline{\quad}, -7, \dots$

Find the missing term or terms in each geometric sequence.

11) $\dots, 2, \underline{\quad}, \underline{\quad}, \underline{\quad}, 32, \dots$

12) $\dots, 4, \underline{\quad}, \underline{\quad}, \underline{\quad}, 2500, \dots$