Find the explicit formula.

1) 34, 36, 38, 40, ...

   A) $a_n = 29 + 4n$

   B) $a_n = 30 + 3n$

   C) $a_n = 31 + 2n$

   D) $a_n = 32 + 2n$

2) −25, 75, 175, 275, ...

   A) $a_n = -125 + 100n$

   B) $a_n = 171 - 98n$

   C) $a_n = -25 + 98n$

   D) $a_n = -123 + 98n$

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

3) −27, −19, −11, −3, ...

4) 30, 22, 14, 6, ...

Find the recursive formula.

5) 3, 12, 48, 192, ...

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

      $a_1 = 3$

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

      $a_1 = 3$

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

      $a_1 = 3$

   D) $a_n = a_{n-1} \cdot \dfrac{1}{4}$

      $a_1 = 3$

6) 3, −18, 108, −648, ...

   A) $a_n = a_{n-1} \cdot -6$

      $a_1 = 3$

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

      $a_1 = -12$

   C) $a_n = a_{n-1} \cdot -6$

      $a_1 = 2$

   D) $a_n = a_{n-1} \cdot -6$

      $a_1 = -12$

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

7) −3, −6, −12, −24, ...
   Find a_{11}

8) 2, −4, 8, −16, ...
   Find a_{12}

Find the missing term or terms in each arithmetic sequence.

9) ..., 6, ___, ___, ___, −394, ...

10) ..., 33, ___, ___, ___, −367, ...

Find the missing term or terms in each geometric sequence.

11) ..., 2, ___, 50, ...

12) ..., −4, ___, ___, ___, −324, ...