Name : _____

L1S1

General Term - Sequence

Write the sequence using the given general term.

1) $a_n = n^2 - 1$ for all $n \geq 1$

2) $a_n = (2^n + 1.4) \cdot (-1)^n$ for all $n \geq 1$

3) $a_n = \frac{7}{3} - \frac{6}{5}(n +$ all $n \geq 1$

5) $a_n = n! \cdot (-1)^{n+1}$ all $n \geq 1$

7) Find the twelfth

8) Find the tenth term of the sequence $\sqrt{3}, \sqrt{3} + 6, \sqrt{3} + 12, \sqrt{3} + 18, \sqrt{3} + 24, \ldots$

Name : _____ **Answer key**

L1S1

General Term - Sequence

Write the sequence using the given general term.

1) $a_n = n^2 - 1$ for all $n \geq 1$

0, 3, 8, 15, 24, ...

2) $a_n = (2^n + 1.4) \cdot (-1)^n$ for all $n \geq 1$

–3.4, 5.4, –9.4, 17.4, –33.4, ...

3) $a_n = \frac{7}{3} - \frac{6}{5}(n +$ all $n \geq 1$

$-\frac{1}{15}, -\frac{19}{15}, -$ **3, 87, 249, ...**

5) $a_n = n! \cdot (-1)^{n+1}$ all $n \geq 1$

1, –2, 6, **6, –64, 256, ...**

7) Find the twelfth

–12

8) Find the tenth term of the sequence $\sqrt{3}, \sqrt{3} + 6, \sqrt{3} + 12, \sqrt{3} + 18, \sqrt{3} + 24, ...$

$\sqrt{3} + 54$