

Name : _____

General Term

L1S1

Part A

Write the geometric sequence using the given general term.

1) $a_n = 2 \cdot (7)^{n+1}$

2) $a_n = -20 \cdot (-2)^{n-1}$

3) $a_n = -3 \cdot (8)^{n-1}$

4) $a_n = 5 \cdot (-6)^n$

5) $a_n = -1 \cdot (-12)^{n-1}$

6) $a_n = 6 \cdot (10)^{n-1}$

Part B

Write the general term of each geometric sequence.

7) $-19, 57, -171, 513, -1539, \dots$

8) $18, 126, 882, 6174, 43218, \dots$

9) $-4, -36, -324, -2916, -26244, \dots$

10) $11, -55, 275, -1375, 6875, \dots$

Name : _____

Answer key

L1S1

General Term

Part A

Write the geometric sequence using the given general term.

1) $a_n = 2 \cdot (7)^{n+1}$

98, 686, 4802, 33614, ...

2) $a_n = -20 \cdot (-2)^{n-1}$

-20, 40, -80, 160, ...

3) $a_n = -3 \cdot (8)^{n-1}$

-3, -24, -192, -1536, ...

4) $a_n = 5 \cdot (-6)^n$

-30, 180, -1080, 6480, ...

5) $a_n = -1 \cdot (-12)^{n-1}$

-1, 12, -144, 1728, ...

6) $a_n = 6 \cdot (10)^{n-1}$

6, 60, 600, 6000, ...

Part B

Write the general term of each geometric sequence.

7) -19, 57, -171, 513, -1539, ...

$a_n = -19 \cdot (-3)^{n-1}$

8) 18, 126, 882, 6174, 43218, ...

$a_n = 18 \cdot (7)^{n-1}$

9) -4, -36, -324, -2916, -26244, ...

$a_n = -4 \cdot (9)^{n-1}$

10) 11, -55, 275, -1375, 6875, ...

$a_n = 11 \cdot (-5)^{n-1}$