

Name : \_\_\_\_\_

## General Term

L2S1

### Part A

Write the geometric sequence using the given general term.

1)  $a_n = 2 \cdot (-3)^{n-1}$

2)  $a_n = -3 \cdot (-4)^{n-1}$

3)  $a_n = 8.5 \cdot (\sqrt{3})^n$

5)  $a_n = -\frac{1}{3} \cdot \left(-\frac{1}{2}\right)^n$

Write the general

7)  $-6, 12, -24, 48, \dots$

9)  $1, -0.5, 0.25, -0.125, 0.0625, \dots$

10)  $-18, -90, -450, -2250, -11250, \dots$

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4 10 04 250  $\frac{3}{1024}, \dots$

## General Term

### Part A

Write the geometric sequence using the given general term.

1)  $a_n = 2 \cdot (-3)^{n-1}$

2)  $a_n = -3 \cdot (-4)^{n-1}$

**2, -6, 18, -54, ...****-3, 12, -48, 192, ...**

3)  $a_n = 8.5 \cdot (\sqrt{3})^n$

# PREVIEW

 **$8.5\sqrt{3}, 25.5,$** 

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**-176, -352, ...**

5)  $a_n = -\frac{1}{3} \cdot \left(-\frac{1}{2}\right)^n$

 **$-\frac{1}{3}, \frac{1}{6},$** 

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**52.5, -262.5, ...**

Write the general

7)  $-6, 12, -24, 48, \dots$

**$a_n = -6 \cdot (-2)^{n-1}$**

$\frac{3}{4}, \frac{3}{16}, \frac{3}{64}, \dots$

**$a_n = \frac{3}{4} \cdot \left(\frac{1}{4}\right)^{n-1}$**

9)  $1, -0.5, 0.25, -0.125, 0.0625, \dots$

**$a_n = 1 \cdot (-0.5)^{n-1}$**

10)  $-18, -90, -450, -2250, -11250, \dots$

**$a_n = -18 \cdot (5)^{n-1}$**