

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

## General Term

L2S3

### Part A

Write the geometric sequence using the given general term.

1)  $a_n = 2.1 \cdot (\sqrt{6})^{n-1}$

2)  $a_n = -9 \cdot (8)^{n-1}$

3)  $a_n = 9.9 \cdot (9)^{n-1}$

# PREVIEW

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5)  $a_n = -13 \cdot (-4)^{n-1}$

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Write the general

7) 19, 285, 4275, 6

-13.6, -27.2, ...

9)  $-\frac{5}{3}, 1, -\frac{3}{5}, \frac{9}{25}, -\frac{27}{125}, \dots$

10) 17, -204, 2448, -29376, 352512, ...

**General Term**Part A

Write the geometric sequence using the given general term.

1)  $a_n = 2.1 \cdot (\sqrt{6})^{n-1}$

2)  $a_n = -9 \cdot (8)^{n-1}$

**2.1, 2.1 $\sqrt{6}$ , 12.6, 12.6 $\sqrt{6}$ , ...****-9, -72, -576, -4608, ...**

3)  $a_n = 9.9 \cdot (9)^{n-1}$

**PREVIEW****9.9, 89.1, 801, ...**

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 **$\frac{2}{7}, \frac{4}{49}, \dots$** 

5)  $a_n = -13 \cdot (-4)^{n-1}$

**-208, 832, -3328, ...**

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**-2500, 12500, ...**

Write the general term

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7) 19, 285, 4275, 64125, ...

-13.6, -27.2, ...

**$a_n = 19 \cdot (15)^{n-1}$**

**$a_n = -1.7 \cdot (2)^{n-1}$**

9)  $-\frac{5}{3}, 1, -\frac{3}{5}, \frac{9}{25}, -\frac{27}{125}, \dots$

10) 17, -204, 2448, -29376, 352512, ...

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

**$a_n = 17 \cdot (-12)^{n-1}$**