

Name : _____

General Term

L2S2

Part A

Write the geometric sequence using the given general term.

1) $a_n = 7.5 \cdot (-7)^{n-1}$

2) $a_n = -6 \cdot (4)^{n+1}$

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

5) $a_n = 10 \cdot (-11)^n$

Write the general

7) $-4, -\frac{4\sqrt{2}}{3}, -\frac{8}{9}, \dots$

9) $-12, -156, -2028, -26364, \dots$

10) $1.3, -10.4, 83.2, -665.6, 5324.8, \dots$

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29, ...

General TermPart A

Write the geometric sequence using the given general term.

1) $a_n = 7.5 \cdot (-7)^{n-1}$

2) $a_n = -6 \cdot (4)^{n+1}$

7.5, -52.5, 367.5, -2572.5, ...**-96, -384, -1536, -6144, ...**

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

 $-\frac{1}{8}, \frac{3}{64}, -\frac{9}{512}, \dots$ **PREVIEW**

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288, 1728, ...

5) $a_n = 10 \cdot (-11)^n$

-110, 1210, -13310, ...

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972, 8748, ...

Write the general

7) $-4, -\frac{4\sqrt{2}}{3}, -\frac{8}{9}, \dots$

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

29, ...

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

9) $-12, -156, -2028, -26364, \dots$

$a_n = -12 \cdot (13)^{n-1}$

10) $1.3, -10.4, 83.2, -665.6, 5324.8, \dots$

$a_n = 1.3 \cdot (-8)^{n-1}$