

Name : _____

Geometric Sequence

Sheet 1

Write the geometric sequence using recursive formula.

1) $a_n = a_{n-1} \cdot 6 ; a_1 = 12$

2) $a_n = a_{n-1} \cdot -3 ; a_1 = 90$

3) $a_n = a_{n-1} \cdot 9 ; a_1 = \frac{1}{4}$

5) $a_n = a_{n-1} \cdot 0.7 ; a_1 = -15$

7) $a_n = a_{n-1} \cdot \frac{6}{7} ; a_1 = 8.2$

9) $a_n = a_{n-1} \cdot 7 ; a_1 = 30$

10) $a_n = a_{n-1} \cdot \sqrt{2} ; a_1 = 6$

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Geometric Sequence

Write the geometric sequence using recursive formula.

1) $a_n = a_{n-1} \cdot 6$; $a_1 = 12$

2) $a_n = a_{n-1} \cdot -3$; $a_1 = 90$

12, 72, 432, 2592, ...**90, -270, 810, -2430, ...**

3) $a_n = a_{n-1} \cdot 9$; $a_1 = \frac{1}{4}$

$a_1 = \frac{1}{4}$

-1, -9, ... **$\frac{1}{9}, \frac{2}{27}, \dots$**

5) $a_n = a_{n-1} \cdot 0.7$; $a_1 = -15$

$a_1 = -15$

4, 2.8, 1.96, ...**-375, 1875, ...**

7) $a_n = a_{n-1} \cdot \frac{6}{7}$; $a_1 = 8.2$

$a_1 = 8.2$

 $\frac{7}{8}, \frac{3}{4}, 14, 49, \dots$ **8.2, 32.8, 131.2, 524.8, ...**

9) $a_n = a_{n-1} \cdot 7$; $a_1 = 30$

10) $a_n = a_{n-1} \cdot \sqrt{2}$; $a_1 = 6$

30, 210, 1470, 10290, ...**6, $6\sqrt{2}$, 12, $12\sqrt{2}$, ...**

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