

Name : _____

Recursive Formula

Part A

Write the geometric sequence using recursive formula.

1) $a_n = a_{n-1} \cdot \frac{1}{4}$; $a_1 = 2$

2) $a_n = a_{n-1} \cdot 4$; $a_1 = 0.4$

3) $a_n = a_{n-1} \cdot 2$; $a_1 = -4$

$a_1 = -4$

5) $a_n = a_{n-1} \cdot -6$; $a_1 = 13$

$a_1 = 13$

Write the recursive formula for the sequence.

7) 10, -9, 8.1, -7.29, ...

-405, ...

9) $\sqrt{7}, \frac{\sqrt{7}}{3}, \frac{\sqrt{7}}{9}, \frac{\sqrt{7}}{27}, \frac{\sqrt{7}}{81}, \dots$

10) -35, -140, -560, -2240, -8960, ...

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