

Name : _____

Recursive Formula

Part A

Write the geometric sequence using recursive formula.

1) $a_n = a_{n-1} \cdot -5 ; a_1 = -32$

2) $a_n = a_{n-1} \cdot 3 ; a_1 = -95$

3) $a_n = a_{n-1} \cdot -7 ;$

$a_1 = 10.1$

5) $a_n = a_{n-1} \cdot 6 ; a_1 = 3$

$a_1 = 3$

Write the recursive formula for the sequence.

7) 27, 189, 1323, 9261, ...

4, ...

9) $-\frac{7}{2}, \frac{21}{4}, -\frac{63}{8}, \frac{189}{16}, -\frac{567}{32}, \dots$

10) $-2, -2.6, -3.38, -4.394, -5.7122, \dots$

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Recursive FormulaPart A

Write the geometric sequence using recursive formula.

1) $a_n = a_{n-1} \cdot -5 ; a_1 = -32$

2) $a_n = a_{n-1} \cdot 3 ; a_1 = -95$

-32, 160, -800, 4000, ...**-95, -285, -855, -2565, ...**

3) $a_n = a_{n-1} \cdot -7 ;$

$a_1 = 10.1$

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worksheet.Not a member?
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access.www.mathworksheets4kids.com**6, -42, 252, ...****30.3, 30.3 $\sqrt{3}$, ...**

5) $a_n = a_{n-1} \cdot 6 ; a_1 = 3$

$a_1 = 3$

4.2, 25.2, ...**8/9, 16/27, ...**

Write the recursive formula for the sequence.

7) 27, 189, 1323, 9261, ...

4, ...

$a_n = a_{n-1} \cdot 7$

$a_n = a_{n-1} \cdot -2$

9) $-\frac{7}{2}, \frac{21}{4}, -\frac{63}{8}, \frac{189}{16}, -\frac{567}{32}, \dots$

10) $-2, -2.6, -3.38, -4.394, -5.7122, \dots$

$a_n = a_{n-1} \cdot -\frac{3}{2}$

$a_n = a_{n-1} \cdot 1.3$