

Sequences Homework

Name _____

Write an explicit rule and a recursive rule using the sequence.

1. 2, 6, 18, 54, 162

2. 94, 87, 80, 73, 66

Each rule represents a geometric sequence. If the given rule is recursive, write it as an explicit rule. If the rule is explicit, write it as a recursive rule.

3. $a_n = 11(2)^{n-1}$

4. $f(1) = 2.5; f(n) = f(n - 1) - 3.5$

5. $a_1 = 27; a_n = a_{n-1} \cdot 3$

6. $f(n) = -4 + 5(n-1)$

7. Write an explicit rule for a geometric sequence where $a_1 = 16$ and $a_3 = 4$

8. Write an explicit rule for an arithmetic sequence where $a_5 = 20$ and $a_{10} = 32$

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